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The Current Index of Anesthesia & Analgesia

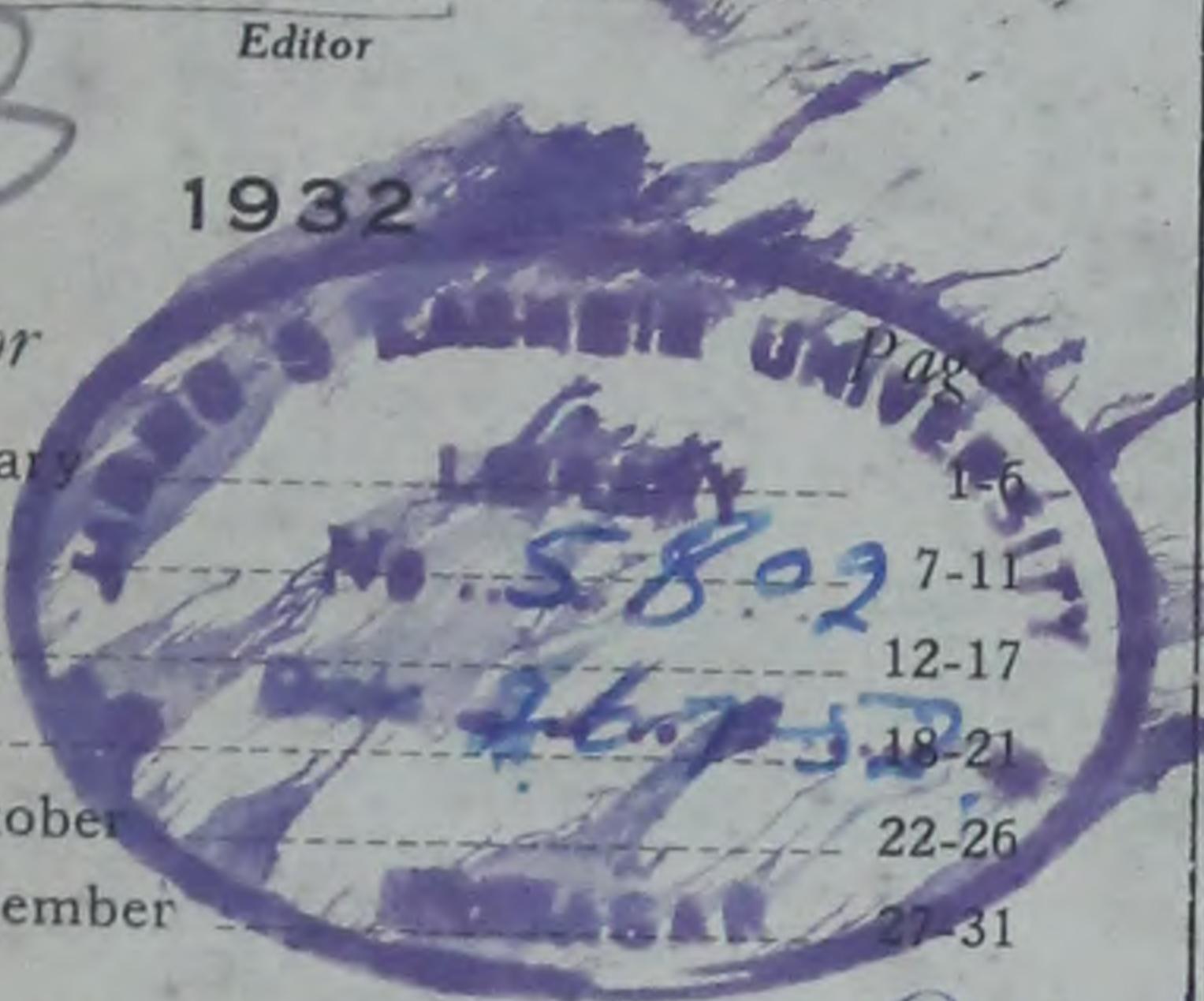
F. H. McMECHAN, A.M., M.D.

Editor

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1932

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Re-Published Every Year by the *S. T. O.
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International Anesthesia
Research Society

The Current Index of Anesthesia and Analgesia, 1932

The Chemical Laboratory

THE FOLLOWING IS A REPORT BY THE AMERICAN MEDICAL ASSOCIATION
CHEMICAL LABORATORY.
P. N. LEECH, Director.

EXAMINATION OF ETHYLENE FOR ANESTHESIA.—V

The control of anesthetic agents requires vigilance by both manufacturers and standard-enforcing agencies. Even though impurities may be slight and relatively harmless, in anesthesia the purest product obtainable should be employed. For this reason the U. S. Pharmacopeia has required high standards for ether. One who follows carefully the Notices of Judgment of the Food and Drug Administration cannot help but appreciate how alert the government has been in enforcing these standards. Pharmaceutical manufacturers have also made large expenditures investigating the keeping qualities of ether.

Ethylene is a relatively recent addition to the agents employed widely for general anesthesia. It is not described in the Pharmacopeia and therefore does not directly concern the Drug Administration of the U. S. Department of Agriculture. When ethylene first came on the market, the Council on Pharmacy and Chemistry requested the A. M. A. Chemical Laboratory to establish standards for this substance. Not only has the Laboratory established suitable standards but, because of the nonofficial status of the gas, frequent examinations have been made of the market supply of ethylene. Recently there was submitted to the Council on Pharmacy and Chemistry a new brand of ethylene. It was deemed advisable at the same time this product was examined chemically to purchase market supplies of the other products described in New and Nonofficial Remedies. Accordingly, tanks of ethylene for anesthesia were purchased both in Chicago and in Columbus, Ohio. In this work the A. M. A. Chemical Laboratory again secured the cooperation of Dr. Warren R. Smith, head of the Department of Chemistry at Lewis Institute, Chicago. The results of the examinations of ten cylinders of ethylene are given in the accompanying table.

Brand	Source	Cylinder No.	Percentage Not Absorbed by Bromine Water	Indicated Percentage of Ethylene	Carbon Dioxide	Carbon Monoxide	Acidity or Alkalinity	Impurities by Silver Ammonia Hydroxide
	Chicago	20771	1.1 1.1	98.9 98.9	0	0	0	0
	Columbus	78314	1.2 1.2	98.8 98.8	0	0	0	0
	Chicago	17405	1.2 1.2	98.8 98.8	0	0	0	0
	Columbus	16767	1.6 1.6	98.4 98.4	0	0	0	0
	Chicago	18337	1.1 1.1	98.0 98.9	0	0	0	0
	Columbus	25939	1.0 1.0	99.0 99.0	0	0	0	0
Puritan	Chicago	29052	0.5 0.5	99.5 99.5	0	0	0	0
Puritan	Columbus	20859	0.6 0.6	99.4 99.4	0	0	0	0
	Chicago	1603	1.0 1.0	99.0 99.0	0	0	0	0
	Mfr.	1563	0.90 0.95	99.1 99.05	0	0	0	0



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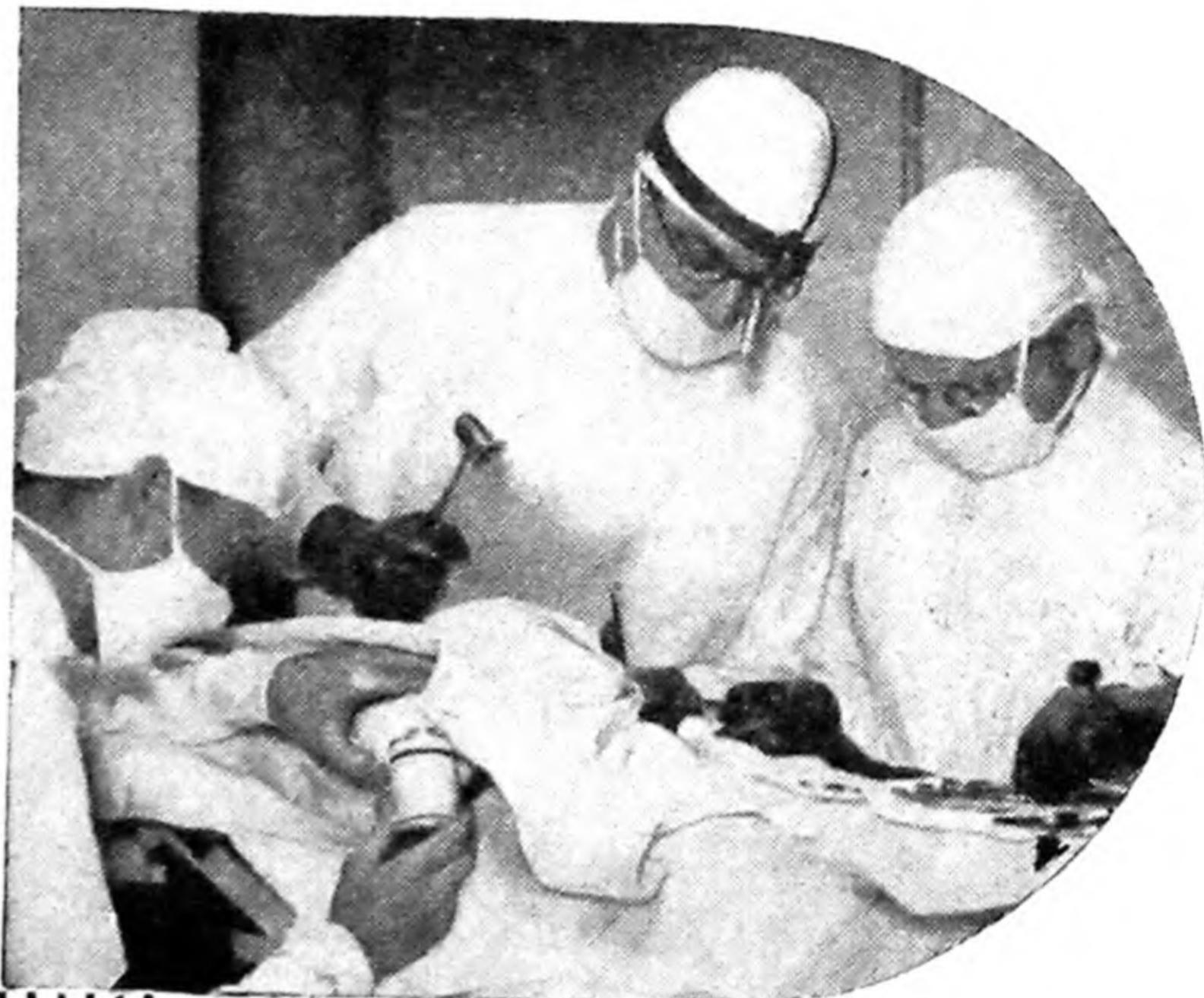
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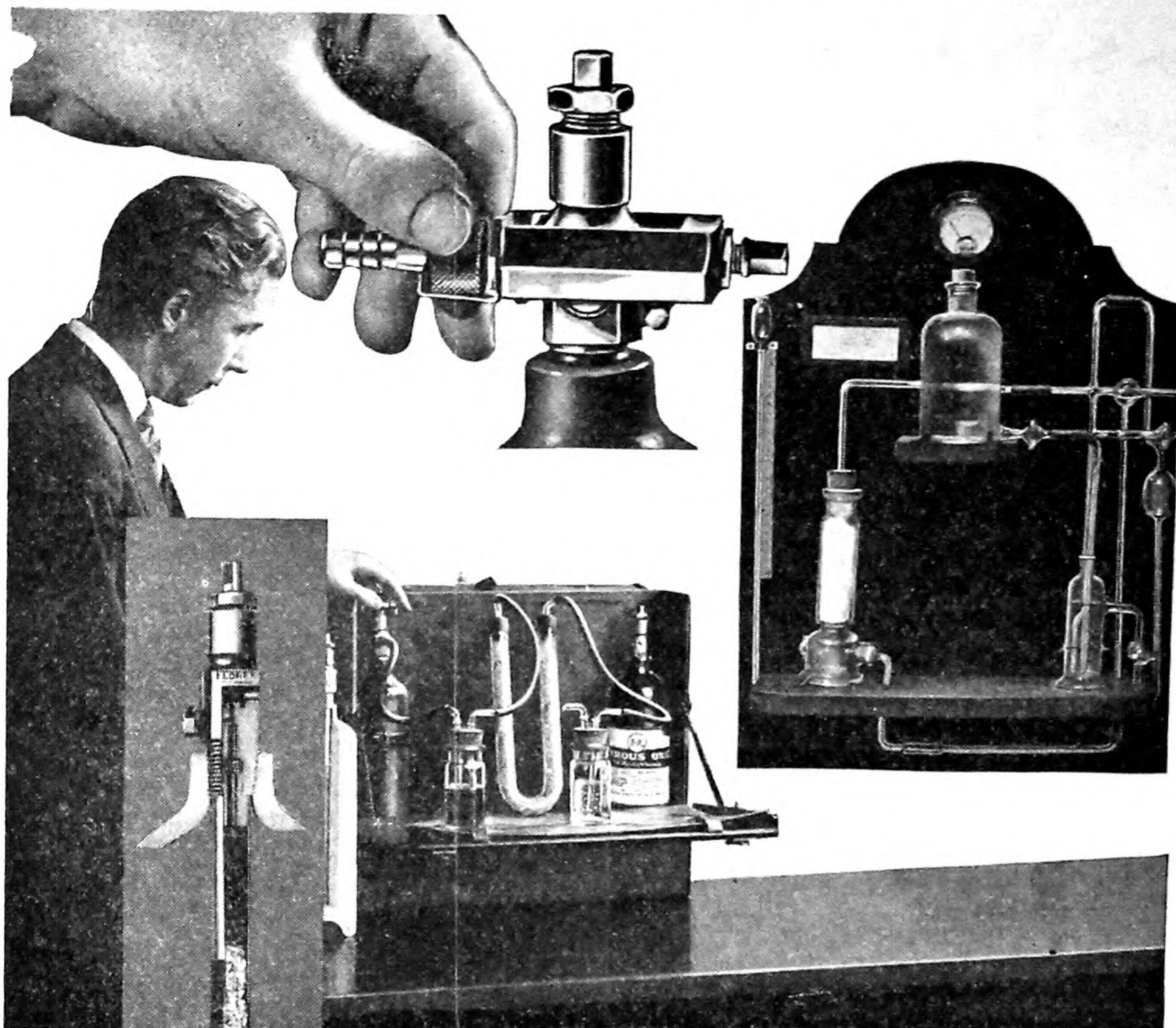


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Volume XI

Supplement—January-February, 1932 Issue

Number 1

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Anesthesia—Current Researches

Avertin, On Several Phases of the Pharmacology of. B. B. Raginsky and Wesley Bourne, Montreal, Canada. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Blood Sugar Content, Effect of Anesthesia on: Experimental Investigation. E. C. Mekie, Edinburgh, Scotland. Surgery, Gynecology and Obstetrics, September, 1931.

Gas-Oxygen Anesthesia, Asphyxial Element in. A. H. Macklin. The Lancet, October 24, 1931.

Pentobarbital Sodium, (Sodium Ethyl-Propyl-Methyl-Carbonyl Barbiturate), Action of. E. E. Swanson and H. A. Shonle, Indianapolis. Journal of Laboratory and Clinical Medicine, August, 1931.

Anesthesia—General Considerations

Anesthetist, Surgeon and Patient and Their Relationship. W. T. Dowdall, Paducah. Kentucky Medical Journal, October, 1931.

Anesthetist, Surgeon and Patient, Relationship Between. V. E. Henderson, Toronto, Canada. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Anesthetist, Why the? J. H. Egan, Tacoma, Wash. Northwest Medicine, August, 1931.

Needed: A Foundation for the Conquest of Pain. Floyd T. Romberger, Lafayette, Ind. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Progress of Anesthesia. R. J. Clausen. British Medical Journal, August 29, 1931.

Status of the Anesthesia Problem, The Present. Arthur Dean Bevan, Chicago, Ill. Journal American Medical Association, November 21, 1931.

Anesthesia—Methods and Operations

Amytal, Sodium, as Preanesthetic Agent with Especial Reference to Its Use in Orthopedic Surgery. T. F. Wheeldon and F. Pilcher, Jr., Richmond. Virginia Medical Monthly, July, 1931.

Anesthesia. G. W. Crile, Cleveland. American Journal of Surgery, October, 1931.

Anesthetics, Various, and Certain Methods of Their Administration: Indications and Contraindications for their Use. J. S. Lundy, Rochester, Minn. New York State Journal of Medicine, August 1, 1931.

Avertin as a Basal Anesthetic, Use of. I. M. Gage and A. Ochsner, New Orleans. New Orleans Medical and Surgical Journal, October, 1931.

Avertin Anesthesia, Clinical Experiences with. E. Ettorre, Riforma Medica, August 31 1931.

Avertin Anesthesia in Otolaryngology. F. D. Woodward and C. T. Burton, University. Virginia Medical Monthly, October, 1931.

Avertin in Surgical Anesthesia. Fraser B. Gurd and Wesley Bourne, Montreal, Canada. Canadian Medical Association Journal, November, 1931.

Barbituric Acid Hypnotics, Clinical Study of Postoperative Value of. Alice F. Maxwell, San Francisco. American Journal of Obstetrics and Gynecology, October, 1931.

The Current Index of Anesthesia and Analgesia, 1932

- Carbon Dioxid Absorption from Anesthetic Mixtures. Ralph M. Waters, Madison, Wis. California and Western Medicine, November, 1931.
- Choice of an Anesthetic. J. M. Willis, McCook. Nebraska State Medical Journal, September, 1931.
- Ether-Oil Colonic Anesthesia, Clinical Experiences with Gwathmey. H. H. M. Lyle, J. T. Gwathmey and L. Water, New York. Annals of Surgery, October, 1931.
- Head and Neck Surgery Anesthesia in, Various Types and Methods. R. Maurits, Grand Rapids. Michigan State Medical Society Journal, October, 1931.
- New Anesthetics. P. Jacobson, Petersburg. Virginia Medical Monthly, July, 1931.
- Noninhalation Anesthesia. J. D. Bisgard, Harlan. Iowa State Medical Association Journal, August, 1931.
- Pain Relief in Urology. Eduard Muhsam. Schmerz, Narkose-Anaesthesia, August-September, 1931.
- Pentobarbital Sodium in Medicine and Surgery, The Use of. George F. Carroll, Biloxi, Miss. New Orleans Medical and Surgical Journal, November, 1931.
- Pernocton and Suggestion. Hans Roesch, Koethan, Germany. Schmerz, Narkose-Anaesthesia, October-November, 1931.
- Premedication. Stanley Rowbotham, London, England. British Journal of Anesthesia, October, 1931.
- Respiration During Anesthesia. E. v. d. Porten, Hamburg, Germany. Schmerz, Narkose-Anaesthesia, August-September, 1931.
- Tribromethyl-Alcohol Anesthesia. P. L. Travers, Gallup, N. M. Southwestern Medicine, September, 1931.

Apparatus

- Oxygen Therapy Apparatus, A New. T. A. Taylor, Lufkin, Texas. Texas State Journal of Medicine, October, 1931.
- Spinal Anesthesia Patients, Description of Carrier for. H. A. Gamble, Greenville, Miss. Southern Medical Journal, October, 1931.

Anesthesia—Toxicity and Impurities.

- Explosions with Chloroform-Ether-Oxygen Mixtures. Ad. Pfleiderer, Tubingen, Germany. Schmerz, Narkose-Anesthesia, August-September, 1931.
- Impurities in Ether, Pharmacologic Effect of. W. L. Mendenhall and Ruth Connolly, Boston. Journal of Pharmacology and Experimental Therapy, October, 1931.

Anesthesia—Teaching and Hospital Service

- Minimum Standards for Anesthesia Service. Mary E. Botsford, San Francisco, Calif. Current Researches in Anesthesia and Analgesia, January-February, 1932.
- Study Records, Anesthesia. Ralph M. Tovell and Halbert L. Dunn, Rochester, Minn. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Anesthesia—Therapeutic Use.

- Freshly Infected Wounds, Use of Ether for Treatment of. Dental Record, November, 1931.
- Morphin as Diagnostic Aid for Localization of Abdominal Disorder, Intravenous Injection of. A. Hildebrandt. Zentralblatt für Chirurgie, September 26, 1931.
- Morphin, Intravenous Injections of. H. Jacobaeus. Ugeskrift for Laeger, July 2, 1931.

Blood and Blood Chemistry Studies

- Acetone Bodies in the Blood, Content of, During Anesthesia. Coutino Castillo, Madrid, Spain. Schmerz, Narkose-Anesthesia, August-September, 1931.

The Current Index of Anesthesia and Analgesia, 1932

Books—New Editions

A Textbook of Exodontia: Exodontia, Oral Surgery and Anesthesia. By Leo Winter, D.D.S., Professor of Oral Surgery and Director of the Oral and Minor Surgery Clinic, New York University College of Dentistry. Second Edition. Cloth pp. 455, with 428 illustrations. St. Louis: C. V. Mosby Co., 1931.

Carbon Dioxid

Human Retinal Circulation and Pressure of Cerebrospinal Fluid During Inhalation of Mixture of Carbon Dioxid and Oxygen, Changes in. S. Cobb and F. Fremont-Smith, Boston. Archives of Neurology and Psychiatry, October, 1931.

Convulsions, Hyperventilation Experiments During CO₂ and O₂ Inhalation in Patients with. M. Fog and M. Schmidt. Journal of Neurology and Psychopathology, July, 1931.

Therapeutics of Carbon-Dioxid, The. Robert Friedman, New York City. Dental Items of Interest, October, 1931.

Dentistry and Oral Surgery

Anesthesia in Exodontia. D. H. Irwin. Oral Hygiene, December, 1931.

General Anesthetics for the General Dental Office. Theodore Fuchs. Dental Outlook, November, 1931.

Nitrous Oxid-Oxygen Anesthesia in Dentistry and Oral Surgery, A Plea for. Mme. G. Flexer-Lawton, Paris, France. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Neothesin, in Dentistry. F. R. Henshaw, G. T. Gregory and H. P. Werkman, Indianapolis. Medical Arts, October, 1931.

Survey of the Merits of General and Local Anesthesia for Oral Surgery and Exodontia, a Comparative. B. H. Harms, Omaha, Nebr. Current Researches in Anesthesia and Analgesia, January-February, 1932.

System of Anesthesia for the Dental Anesthetist. F. P. de Caux, London, England. British Journal of Anesthesia, October, 1931.

Deaths

Nupercain Anesthesia, Case of Death During. P. Kuhnel. Ugeskrift for Laeger, September 10, 1931.

Spinal Anesthesia, Sudden Death After, Sensitization Phenomenon and Adrenalin Suspected as Being Cause; Case Reported in Which Convulsion Followed Use of Adrenalin. O. H. Brown and L. C. Barlow, Phoenix, Ariz. Southwestern Medicine, August, 1931.

Historical Consideration

Chloroform and Chloroform Anesthesia, One Hundred Years of. Max Speter, Berlin, Germany. Schmerz, Narkose-Anaesthesie, October-November, 1931.

Walter Channing and the Introduction of Anesthesia in Childbirth. Herbert Thoms, New Haven, Conn. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Local Anesthesia—Current Researches

Neothesin, a New Local Anesthetic. Harold W. Coles Indianapolis. Medical Arts, October, 1931.

Procain Hydrochlorid, A Study of the Products of Metabolism of. Leonard S. Fosdick and Harold L. Hansen, Chicago, Ill. The Dental Cosmos, November, 1931.

Spinal Anesthetics, Effects of, on the Spinal Cord and Its Membranes: An Experimental Study. Loyal Davis, Hale Haven, J. H. Givens and John Emmett, Chicago. Journal American Medical Association, December 12, 1931.

The Current Index of Anesthesia and Analgesia, 1932

Toxicity of Certain Local Anesthetics and Basal Narcotics. Bernhard Wilk-mann, Münster, i.W., Germany. Schmerz, Narkose-Anaesthesie, October-November, 1931.

Local Anesthesia—Methods and Operations

Cesarean Section under Local Infiltration Anesthesia, A Simple Technique for. Hervey C. Williamson, New York City. American Journal of Obstetrics and Gynecology, November, 1931.

Fractures and Dislocations, Regional Anesthesia by Nerve Block Method in Reduction of. R. K. Hollingsworth, Jackson. Tennessee State Medical Association Journal, August, 1931.

Fractures, Local Anesthesia in the Reduction of. Charles E. Stewart, Cohuna, Victoria. The Medical Journal of Australia, September 12, 1931.

Local Anesthesia and Its Essentials, Preparation and Technique. Agost v. Schulcz, Budapest, Hungary. Schmerz, Narkose-Anaesthesie, August-September, 1931.

Neothesin, In the Throat. Edwin N. Kime, Indianapolis. Medical Arts, October, 1931.

Neothesin, In Nose and Throat Practice. Alan L. Sparks, Indianapolis. Medical Arts, October, 1931.

Neothesin, In Nose and Throat Practice. John W. Carmack, Indianapolis. Medical Arts, October, 1931.

Neothesin, In General Surgery. Wm. R. Meeker, Mobile, Ala. Medical Arts, October, 1931.

Neothesin, In Industrial Practice. B. F. Hatfield, Indianapolis. Medical Arts, October, 1931.

Neothesin, For Local Anesthesia. Harold M. Trusler, Indianapolis. Medical Arts, October, 1931.

Neothesin, In Ophthalmology. John R. Newcomb, Indianapolis. Medical Arts, October, 1931.

Neothesin, In Spinal Anesthesia. Floyd T. Romberger and Frank W. Ratcliffe, Lafayette, Ind. Medical Arts, October, 1931.

Neothesin, In Urology. H. C. Hamer, Indianapolis. Medical Arts, October, 1931.

Neothesin, In the Urethra and Bladder. Rex E. VanDuzen, Dallas, Texas. Medical Arts, October, 1931.

Nupercain Anesthesia Based on First Fifty Cases. E. Thomsen. Ugeskrift for Laeger, September 10, 1931.

Nupercain, New Local Anesthetic and Its Use in Nose and Throat Practice. A. F. Laszlo, New York. Laryngoscope, October, 1931.

Orthopedic Surgery, Local and Regional Anesthesia in. A. Inclan, Havana, Cuba. Journal of Bone and Joint Surgery, October, 1931.

Pantesina, The New Anesthetic. Mario Deveze, Buenos-Aires, South America. La Odontologia, August, 1931.

Pernocton, Are the Requirements for Its Use Understood? E. Rotthaus, Bielefeld, Germany. Schmerz, Narkose-Anaesthesie, October-November, 1931.

Sacral Block Anesthesia in Perineal Prostatectomy: Its Infallibility When Accurately Administered. Edwin Davis, Omaha, Nebr. Journal American Medical Association, December 12, 1931.

Spinal Anesthesia. G. P. Muller and R. H. Overholt, Philadelphia. Annals of Surgery, October, 1931.

Spinal Anesthesia, Circulatory Changes During. M. H. Seevers and R. M. Waters, Madison, Wis. California and Western Medicine, September, 1931.

Spinal Anesthesia in General Surgical Practice. Arthur W. Hoaglund, Minneapolis. Western Journal of Surgery, Obstetrics and Gynecology, November, 1931.

Spinal Anesthesia, Personal Experiences with. J. Kuncl, Jr., Alliance. Nebraska State Medical Journal, July, 1931.

Spinal Anesthesia, The Pitkin Method of. F. Bode, Bad Homburg, Germany. Schmerz, Narkose-Anaesthesie, October-November, 1931.

The Current Index of Anesthesia and Analgesia, 1932

- Spinal Anesthesia: Subarachnoid Radicular Conduction Block. P. D. Scofield, Columbus. Ohio State Medical Journal, August, 1931.
- Spinal Anesthesia, Some Observations on. L. W. Pollok, Temple, Texas. Texas State Journal of Medicine, September, 1931.
- Spinal Anesthesia for Surgery Above the Diaphragm. Robert McKinlay, Weihwei, Honan, China. Canadian Medical Journal, December, 1931.
- Spinal Anesthesia, Untoward Effects in. I. M. Webber, Portland. Maine Medical Journal, September, 1931.
- Spinal Block Analgesia, High, with Percain. C. Langton Hewer, London, England. Current Researches in Anesthesia and Analgesia, January-February, 1932.
- Spinocain Anesthesia: Results in Two Series of Cases. M. B. Stokes, Houston, Texas. Texas State Journal of Medicine, September, 1931.
- Subarachnoid Block; General Analgesia; Spinal Anesthesia; Respiratory Paralysis; Fallacies and Methods. W. Howard Jones, London, England. British Journal of Anesthesia, October, 1931.
- Throat, Nose and Ear Cases, Anesthetics in Relation to. J. W. Leitch. Journal of Laryngology and Otology, September, 1931.
- Tonsilectomy Under Local Anesthesia. J. B. Waring, Cincinnati, Ohio. Clinical Medicine and Surgery, October, 1931.
- Trigeminal Neuralgia, Phopylaxis and Relief of Pain. August Lindemann, Düsseldorf. Schmerz, Narkose-Anaesthesie, August-September, 1931.
- Urinary Surgery, Anesthesia in. A. Vitale. Archivio Italiano di Urologia, September, 1931.

Local Anesthesia—Toxicity and Impurity

- Nupercain Intoxication, Cases of Acute. S. With. Ugeskrift for Laeger, September 10, 1931.

Local Anesthesia—Therapeutic Use.

- Cardiac Pain: Paravertebral Injections of Alcohol for Relief of, Review of Experience to Date and Report of Nine Cases. R. L. Levy and R. O. Moore, New York. Archives of Internal Medicine, July, 1931.
- Intestinal Distention, Use of Spinal Anesthesia in. J. A. Weinberg and H. R. Sandstead, Omaha. Nebraska State Medical Journal, October, 1931.

Narcotics and Hypnotics

- Sleep and Hypnotics. E. D. Wiersma. Nederlandsch Tijdschrift voor Geneeskunde, September 19, 1931.

Obstetrical Anesthesia and Analgesia

- Amytal, Sodium, in Obstetrics by General Practitioner, Use of. E. K. Collier, Tipton. Oklahoma State Medical Association Journal, August, 1931.
- Amytal, Sodium, for Alleviation of Pain During Labor, Use of. M. S. Lewis and R. Hamilton, Nashville. Tennessee State Medical Association Journal, September, 1931.
- Anesthesia in Second Stage of Labor in Primiparas. Jane King and Joyce Morgan. Lancet, August 15, 1931.
- Avertin in Obstetrics and Gynecology. J. M. Pierce, Ann Arbor. Michigan State Medical Society Journal, September, 1931.
- Nupercain Subdurally in Obstetrics. S. A. Cosgrove, Jersey City. American Journal of Obstetrics and Gynecology, November, 1931.
- Painless Labor, New Advances in. E. Vogt, Zwickau i.Sa., Germany. Schmerz, Narkose-Anaesthesie, October-November, 1931.

Oxygen Therapy and Studies

- Cardiac Failure, Effects of Treatment with Oxygen in. A. L. Barach and D. W. Richards, New York. Archives of Internal Medicine, August, 1931.
- Diabetes Mellitus, Treatment of, with Inhalation of Oxygen. H. Weinstein. Terapevtichesky Arkhiv, 1931.
- Diabetic Persons, Influence of Inhalation of Oxygen on. B. N. Rubinstein. Terapevtichesky Arkhiv, 1931.

The Current Index of Anesthesia and Analgesia, 1932

- Therapeutic Use of Oxygen and Carbon Dioxid. H. P. Miller, Rock Island. Illinois Medical Journal, October, 1931.
- Ventilation in Oxygen Tent and Oxygen Chamber Therapy, Importance of. A. L. Barach, New York. New York State Journal of Medicine, October 15, 1931.

Postoperative Complications

- Atelectasis, Massive, Following Tonsillectomy. J. W. Jersey, Jr., Greenville, S. C. Southern Medical Journal, November, 1931.
- Atelectasis, Postoperative, and Collateral Respiration. C. M. van Allen and T. S. Jung, Peiping, China. Journal of Thoracic Surgery, October, 1931.
- Lungs: Mechanism of Inflation of, Influence of Deflation on Postoperative Complications. C. Briscoe. Lancet, September 5, 1931.
- Pulmonary Complications, Postoperative: With Special Reference to the Effect of Spinal Anesthesia. L. F. Sise, Boston, Mass. Current Researches in Anesthesia and Analgesia, January-February, 1932.
- Vomiting and Its Prevention, Postanesthetic. O. Bsteh and A. Hauer. Wiener Klinische Wochenschrift, June 19, 1931.

Risk—Surgical and Anesthetic

- "... But Unfortunately the Patient Died": A Study of One Hundred and Twenty-six Postoperative Deaths at University Hospital, Tsinan, Shantung, P. B. Price. China Medical Journal, August, 1931.

Resuscitation

- Cardiac Injections. Budapest Letter, Journal American Medical Association, October 24, 1931.
- Respiratory Paralysis in Poliomyelitis, A Case of, Successfully Treated in a Respirator. John Favill, and Thomas L. Fentress, Chicago. Journal American Medical Association, November 14, 1931.

Shock

- Childbirth, Shock at. I. W. Popandopulo. Vrachebnoe Delo, March 31, 1931.
- Circulatory Processes During Shock. H. Mautner and E. P. Pick. Klinische Wochenschrift, August 22, 1931.
- Experimental Shock: A Study of Its Production and Treatment. Alfred Blalock, J. W. Beard and G. S. Johnson, Nashville, Tenn. Journal American Medical Association, December 12, 1931.
- Mechanism of Production and Treatment of Shock. A. Blalock, Nashville, Tenn. Alabama Medical Association Journal, September, 1931.
- Present Conception and Treatment of Shock. H. L. Wenger, Paterson, N. J. American Journal of Surgery, August, 1931.

British Journal of Anesthesia

Annual Subscription, £2, post free—U. S. A. \$10
Single Copies, 10s. 6d. Published Quarterly.

SHERRATT & HUGHES, PUBLISHERS
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Amytal, Effect of, on Autonomic Nervous System as Indicated by Salivary Glands. G. W. Stavraky, Montreal. Journal of Pharmacology and Experimental Therapeutics, November, 1931.

Avertin, On Several Phases of the Pharmacology of. B. B. Raginsky and Wesley Bourne, Montreal, Canada. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Carbon Dioxid, Effect of, on Ether, Ethylene and Nitrous Oxid Anesthesia. G. B. Kleindorfer, New Orleans. Journal of Pharmacology and Experimental Therapeutics, November, 1931.

Propylene, Electrocardiographic Studies of Effects of, as General Anesthetic in Man. M. H. Kahn and L. K. Riggs, New York. Annals of Internal Medicine, November, 1931.

Anesthesia—General Considerations

Foundation for the Conquest of Pain, Needed a. Floyd T. Romberger, Lafayette, Ind. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Relationship between Anesthetist, Surgeon and Patient. V. E. Henderson, Toronto, Canada. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Anesthesia—Methods and Operations

Avertin Anesthesia in Operations About the Head. M. P. Palmer, El Paso, Texas. Southwestern Medicine, November, 1931.

Avertin, Basal Anesthesias, with Ether, Nitrous Oxid and Ethylene, Based on Clinical and Metabolic Studies: Seven Hundred Cases, Results of. H. Widenhorn, Freiburg, Germany. Annals of Surgery, November, 1931.

Avertin in Gynecology: Record of 1,000 Cases. J. Young. British Medical Journal, December 5, 1931.

Barbital Compounds, Intravenous Use of. Report of Council on Pharmacy and Chemistry. Journal American Medical Association, December 19, 1931.

Chloroform in Definite Percentage Dosage, An Original Clinical Method of Giving. S. Thompson Rowling. British Journal of Anesthesia, January, 1932.

Disturbances in Anesthesia. E. Garzo. Wiener klinische Wochenschrift, October 16, 1931.

Endotracheal Anesthesia: A New Technique. A. E. Guedel, Beverly Hills, Calif., and R. M. Waters, Madison, Wis. Annals of Otology, Rhinology and Laryngology, December, 1931.

Gas Anesthesia of Today: A Travel Report. Geoffrey Kaye, Melbourne. Medical Journal of Australia. January 2, 1932.

Gas Anesthesia, A Report of the Use of. Geoffrey Kaye, Melbourne, Australia. Medical Journal of Australia, December 26, 1931.

Gas Anesthesia. W. T. Killian, Philadelphia. The Pennsylvania Medical Journal, January, 1932.

Gynecology, Alleviation of Pain in. W. Latzko. Wiener klinische Wochenschrift, October 30, 1931.

Inhalation Anesthesia, with Some Bio-Chemical Comparisons, A New Technique in the Administration of. R. J. Minnitt, Liverpool, England. Liverpool Medico-Chirurgical Journal No. 5, 1931.

The Current Index of Anesthesia and Analgesia, 1932

- Nitrous Oxid-Oxygen Anesthesia in Abdominal Operations. N. LaGravinese. Polyclinico, October 19, 1931.
- Present Day Anesthesia. E. W. Beach, Philadelphia. The Pennsylvania Medical Journal, January, 1932.
- Pernocton Anesthesia, Observations on. Richard Pfeiler, Wien in Lainz, Germany. Schmerz, Narkose-Anaesthesie, December 1931-January 1932.
- Pernocton for Electro-Coagulations, Observations on. Rudolf Hummel, Frankfurt am Main, Germany. Schmerz, Narkose-Anaesthesie, December 1931-January 1932.

Apparatus

- Nitrous Oxid-Oxygen Anesthesia by Means of Stiefenhofer's Apparatus, Critical Remarks on. G. Eichelte. Zentralblatt für Chirurgie, October 24, 1931.

Anesthesia—Toxicity and Impurities

- Ether Convulsions: A Note as to Treatment. Ashley Daly, London. British Journal of Anesthesia, January, 1932.

Anesthesia—Teaching and Hospital Service

- Standards, Minimum, for Anesthesia Service. Mary E. Botsford, San Francisco. Current Researches in Anesthesia and Analgesia, January-February, 1932.

- Study Records, Anesthesia. Ralph M. Tovell, Rochester, Minn. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Anesthesia—Therapeutic Use

- Cancer Therapy, Use of Sodium Amytal as Anesthetic Agent in. G. L. Sheehan, Buffalo. Radiology, December, 1931.

Basal Metabolism

- Basal Metabolic Rates in Late Pregnancy and Puerperium. O. H. Schwarz and C. Drabkin, St. Louis. American Journal Obstetrics and Gynecology, October, 1931.

Books—New Editions

- Practical Anesthetics for the Student and General Practitioner. C. F. Hadfield. Second Edition, Post 8 vo., pp. 350. Bailliere, Tindall and Cox, London, Publishers.

Carbon Dioxid

- Carbon Dioxid, Experiments on Optimal Action of, on Normal and Anesthetized Animals. H. J. von Brandis and H. Killian. Deutsche Zeitschrift für Chirurgie, October 2, 1931.

- Intensive Intravenous Injections of Iodin and Subcutaneous Injections of Carbon Dioxid in Treatment of Angina Pectoris. C. Lian A. Blondel and Racine. Bulletin Memoires de la Societe Medicale des Hopitaux de Paris, November 23, 1931.

- Spinal Anesthesia, Carbon Dioxid as Adjunct to. C. A. Roeder. American Journal of Surgery, November, 1931.

- Spinal Anesthesia, Use of Carbon Dioxid in. M. Matousek. Zentralblatt für Gynäkologie, October 31, 1931.

Dentistry and Oral Surgery

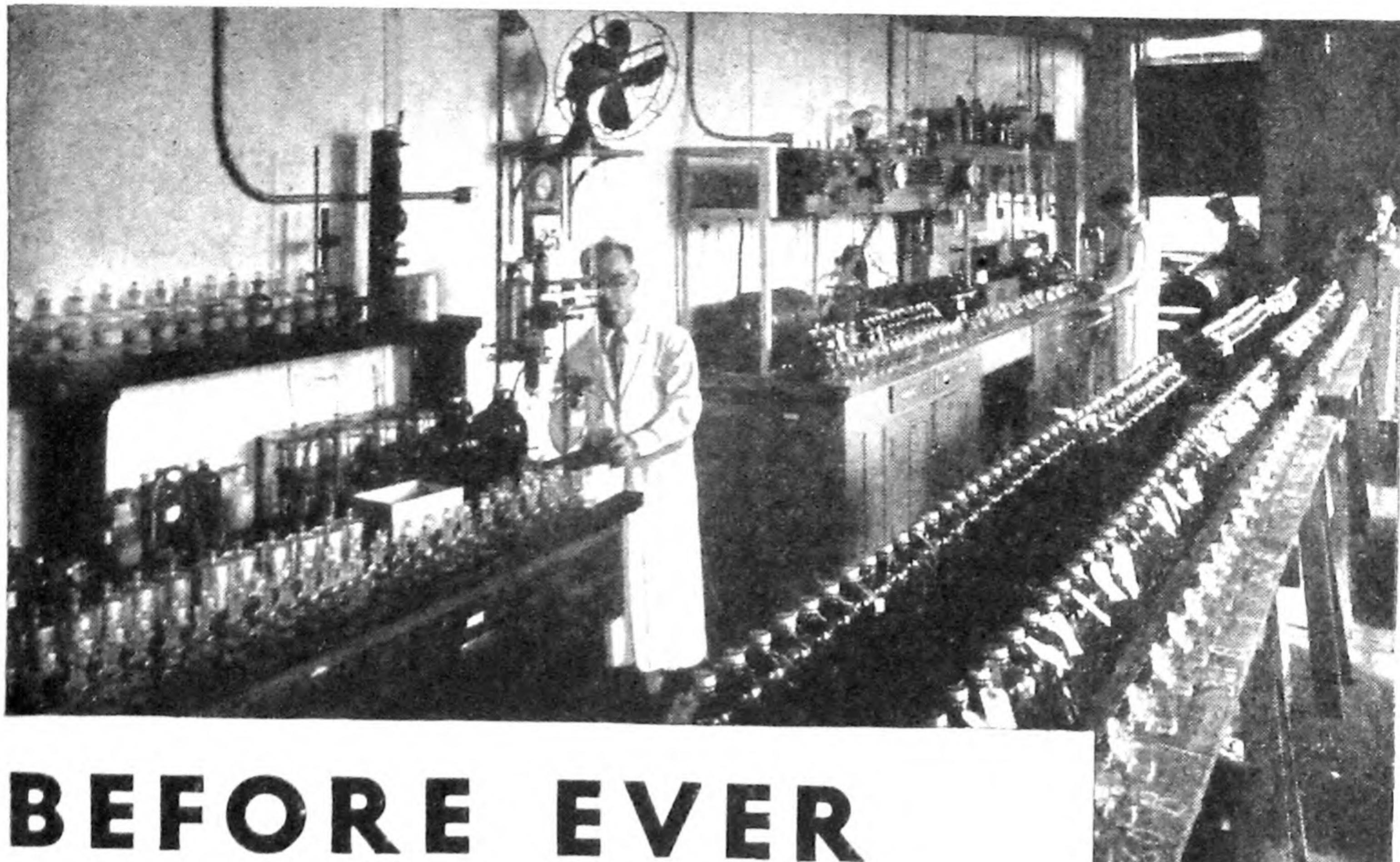
- General and Local Anesthesia for Oral Surgery and Exodontia, A Comparative Survey of the Merits of. B. H. Harms, Omaha, Neb. Current Researches in Anesthesia and Analgesia, January-February, 1932.

- Nitrous Oxid-Oxygen Anesthesia in Dentistry and Oral Surgery, A Plea for. G. Flexer-Lawton, Paris, France. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Historical Considerations

- Walter Channing and the Introduction of Anesthesia in Childbirth. Herbert Thoms, New Haven, Conn. Current Researches in Anesthesia and Analgesia, January-February, 1932.

The Current Index of Anesthesia and Analgesia, 1932



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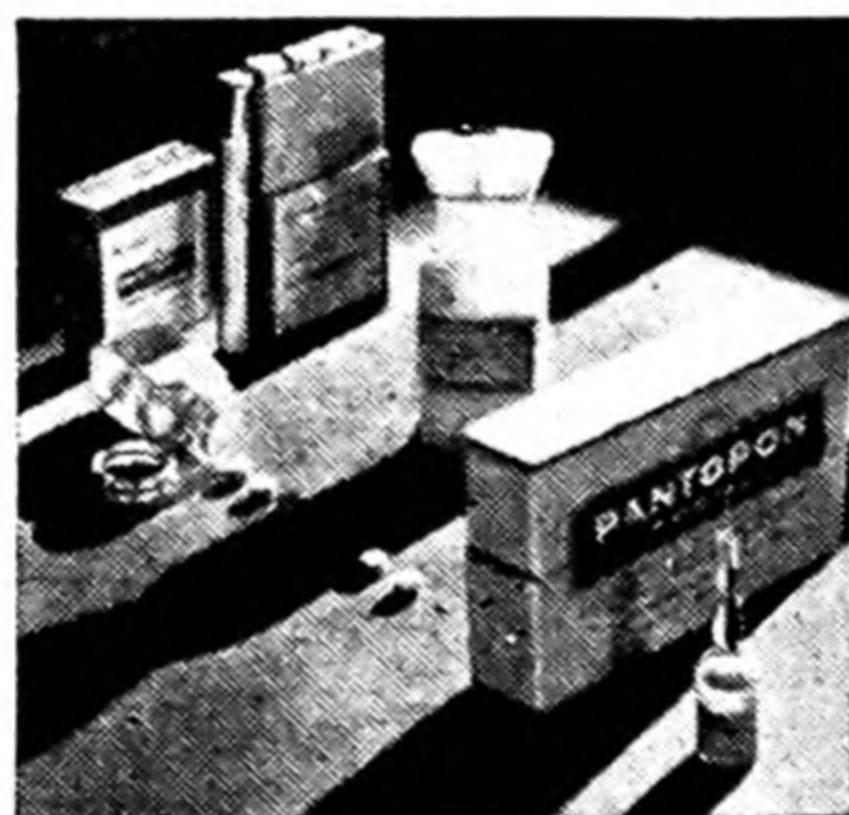
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The Current Index of Anesthesia and Analgesia, 1932

Local Anesthesia—Current Researches

Percain, Pharmacology of. M. C. G. Israels and A. D. MacDonald. British Medical Journal, November 28, 1931.

Local Anesthesia—Dentistry and Oral Surgery

Local Anesthesia as Cause of Infection Following Extraction of Teeth. A. Gangora Duran. Siglo Medico, November 7, 1931.

Local Anesthesia—Methods and Operations

Block Anesthesia, Deep, of Second and Third Divisions of Fifth Nerve. J. B. Brown, St. Louis. Surgery, Gynecology and Obstetrics, December, 1931.

Epidural Anesthesia. H. E. Bundy. Medical Bulletin of Veterans Administration, October, 1931.

Epigastric Pain in Appendicitis and Gastro-Appendicular Reflex, Controlled by Local Anesthesia. M. Loret. Polyclinico, October 12, 1931.

Local Anesthesia, Practical. C. E. Corlette, Sydney, Australia. Sydney University Medical Journal, September, 1931.

Local Anesthesia, A Scheme for Preparation of Solutions by Tablets. C. E. Corlette, Sydney, Australia. The Medical Journal of Australia, November 14, 1931.

Nupercain, A Report on Anesthetic Properties of. A. Zienkiewicz. Polska Gazeta Lekarska, December 6, 1931.

Pantocain. Helmut Schmidt, Hamburg-Eppendorf, Germany. Schmerz, Narkose-Anaesthesia, December 1931-January 1932.

Peridural Segmental Anesthesia, New Method of Regional Anesthesia. A. M. Dogliotti. Zentralblatt für Chirurgie, December 12, 1931.

Spinal Block Analgesia, High, With Percain. C. Langton Hewer, London, England. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Spinal, (Lumbar) Anesthesia—Resumé of 751 Cases. W. C. Stillwell, Mankato. Minnesota Medicine, February, 1932.

Spinal Anesthesia. E. Vogt. Zentralblatt für Gynäkologie, October 31, 1931.

Spinal Anesthesia, Observations on, With a Report of 1875 Cases. Boris Rapoport, Roxbury, Mass. New England Journal of Medicine, June 11, 1931.

Spinal Anesthesia with Nupercain and Procain. A. Harris and L. G. Goldberg, Brooklyn. Annals of Surgery, November, 1931.

Spinal Anesthesia in Selected Cases, A Plea for the Use of. W. Decker Smith, Texarkana. Journal of Arkansas Medical Society, January, 1932.

Spinal Anesthesia: A Report of a Case, Transitory Hypertension During. P. Heller and P. Hungate, Kansas City, Mo. Journal American Medical Association, December 26, 1931.

Spinal Anesthesia: Spinal Anesthesia Questionnaire and Series of Spinal Anesthetics. R. R. Cranmer and E. C. Henrickson, Minneapolis. Annals of Surgery, November, 1931.

Spinal Anesthesia Record Sheet. L. H. Maxson, Seattle. Northwest Medicine, November, 1931.

Spinal Anesthesia, Statistical and Other Observations on. W. W. Dill, Norristown. Pennsylvania Medical Journal, January, 1932.

Spinal Anesthesia on a General Surgical Service. E. W. Saunders, New York. Annals of Surgery, November, 1931.

Spinal Anesthesia in General Surgical Practice. A. W. Hoaglund, Minneapolis. Western Journal Surgery, Obstetrics and Gynecology, November, 1931.

Study of Spinal Analgesia Based on Three Hundred and Fifty-Seven Personal Cases. E. Garside, New Orleans. Annals of Surgery, November, 1931.

Tonsillectomy, Local Anesthesia for. J. B. H. Waring, Cincinnati. Medical Journal and Record, November 4, 1931.

Vaginal Anesthesia in Laparotomy. I. Szekely. Zentralblatt für Gynäkologie, October 24, 1931.

The Current Index of Anesthesia and Analgesia, 1932

Local Anesthesia—Toxicity and Impurity

Fatal Tissue Injury, Procain Hydrochlorid-Epinephrin Solution and, Local Anesthesia with 0.5 Per Cent. Gebele. Deutsche Zeitschrift für Chirurgie, November 24, 1931.

Local Anesthesia—Therapeutic Use

The Psychalgias: A Study of Their Frequency and Characteristics by Means of the Procain Skin Test and by the Effect of Suggestion. Joseph H. Pratt, Lewis A. Golden and Joseph Rosenthal, Boston, Mass. Journal of the American Medical Association, February 6, 1932.

Medico-Legal Considerations

Hospitals: Duty to Furnish Competent Nurses. Goldfoot v. Lofgren (Ore.), 298 P. 843. Medicol-Legal, Journal American Medical Association, January 30, 1932.

Obstetrical Anesthesia and Analgesia

Casarean Section under Local and Spinal Anesthesia. T. C. Davidson and Edgar Boling, Atlanta, Ga. Journal of the Medical Association of Georgia, January, 1932.

Local Anesthesia in Obstetrics and Gynecology. J. Zubrzycki. Polska Gazeta Lekarska, December 6, 1931.

Pernocton in Obstetrics. R. F. Matters. Medical Journal of Australia, November 21, 1931.

Rectal Ether Analgesia in Childbirth. William J. Stevens, Ottawa. Canadian Medical Association Journal, February, 1932.

Sacral Anesthesia in Childbirth. J. St. George Wilson, Liverpool, England. Liverpool Medico-Chirurgical Journal, No. 5, 1931.

Sodium Isoamylethyl Barbiturate and Nitrous Oxid-Oxygen, Obstetric Anesthesia and Analgesia with. H. S. Ruth and N. F. Paxson, Philadelphia, Pa. American Journal of Obstetrics and Gynecology, January, 1932.

Oxygen Studies and Therapy

Carotid Sinus, Respiratory Excitability of. D. Danielopolu, I. Marcu and G. G. Proca. Klinische Wochenschrift, November 21, 1931.

Heart Disease, The Therapeutic Use of Oxygen in. Alvan L. Barach, New York City. Annals of Internal Medicine, October, 1931.

Heart Action of Fetus: Influence of Oxygen and of Carbon Dioxid on Frequency of Fetal Heart Beat, Investigations on. W. Rech. Archiv für Gynäkologie, October 22, 1931.

Idiopathic Ulcerative Colitis, Intestinal Oxygenation in. J. Felsen, New York. Archives of Internal Medicine, November, 1931, Part 1.

Oxygen Therapy by Mouth. A. J. D. Cameron, London, England. Medical Journal and Record, November 4, 1931.

Oxygen Therapy Without Soda Lime. Milton B. Rosenbluth and Morris Block, New York. Journal American Medical Association, January 30, 1932.

Postoperative Complications

Atelectasis, Massive, Following Tonsillectomy. J. W. Jersey, Jr., Greenville, S. C. Southern Medical Journal, November, 1931.

Atelectasis, Postoperative. T. A. Burcham and H. W. Dahl, Des Moines. Iowa State Medical Society Journal, October, 1931.

Pulmonary Complications, Postoperative: With Special Reference to the Effect of Spinal Anesthesia. L. F. Sise, Boston. Current Researches in Anesthesia and Analgesia, January-February, 1932.

Risk—Surgical and Anesthetic

Goiter, Exophthalmic, Death Following Operation for, in Spite of Preparation with Compound Solution of Iodin. B. Breitner. Zentralblatt für Chirurgie, October 24, 1931.

Resuscitation

Newly Born, Resuscitation During Anesthesia and of the. Sir Francis E. Shipway, London. British Journal of Anesthesia, January, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Shock

Experimental Shock: XI. Study of Alterations in Volume of Blood and in Water Content of Blood and of Muscle that are Produced by Histamin. Virginia Butler, J. W. Beard and A. Blalock, Nashville, Tenn. Archives of Surgery, November, 1931.

Experimental Shock XII. Study of Effects of Hemorrhage, of Trauma to Muscles of Trauma to Intestines, of Burns and of Histamin on Cardiac Output and on Blood Pressure of Dogs. G. S. Johnson and A. Blalock, Nashville, Tenn. Archives of Surgery, November, 1931.

Shock and Postoperative Hemorrhage, The Treatment of Surgical. J. Louis Ransohoff and Sidney N. Mendelsohn, Cincinnati, Ohio. Journal of Medicine, February, 1932.

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Volume XI

Supplement—May-June, 1932 Issue

Number 3

The Current Index of Anesthesia and Analgesia

Anesthesia—Current Researches

Amytal, Effect of, on Smooth Muscle. Chapman Reynolds, Milwaukee, Wis. Proceedings of the Society for Experimental Biology and Medicine, xxviii, 656-658, 1931.

Anesthetics, Small Doses of. Chapman Reynolds, Milwaukee, Wis. Proceedings of the Society for Experimental Biology and Medicine, xxix, 601-603, 1932.

Avertin Anesthesia, Disturbances of Carbohydrate Metabolism, of Acid-Base Economy and of Gas Exchange by, Its Modification by Oxygen and Carbon Dioxid Inhalation. H. Fuss and E. Derra. Klinische Wochenschrift, January 2, 1932.

Avertin Anesthesia in Experimental Nephritis. J. R. Veal, J. R. Phillips and C. Brooks, New Orleans, Journal of Pharmacology and Experimental Therapeutics, December, 1931.

Avertin Intoxication, The Detoxicating Properties of Sodium Thiosulphate in, an Experimental Study. Adolph Bolliger, Sydney, Australia. The Medical Journal of Australia, January 23, 1932.

Ether, Impurities in, Pharmacological Effect of. Walter L. Mendenhall and Ruth Connolly, Boston, Mass. Journal of Pharmacology and Experimental Therapeutics, October, 1931.

Methods of Anesthesia: Progress in: Attempts of Direct Narcotization of Central Nervous Organs. O. Zeller. Archiv für klinische Chirurgie, January 2, 1932.

Mechanism of Pain. Foreign Letters-London. Journal of American Medical Association, January 9, 1932.

Narcotics, Action of, on Conduction of Nerve Impulses from a Single End-Organ. Chiao Tsai. Journal of Physiology, December 17, 1931.

Pancreatitis, Acute Hemorrhagic, Occurring During General Anesthesia: Preliminary Notice. O. Wildman. U. S. Naval Medical Bulletin, April, 1932.

Protein Disturbances, Anesthesia and. W. D. Bancroft, Ithaca, N. Y. Current Researches in Anesthesia and Analgesia, March-April, 1932.

Anesthesia—General Considerations

Partnership Between Anesthesia and Surgery. A. L. Flemming. Bristol Medico-Chirurgical Journal, (Winter) 1931.

Visit to Some of the Hospitals in Canada and to the Mayo Clinic. H. W. Featherstone, Birmingham, England. Proceedings Royal Society of Medicine, Section of Anesthetics, xxiv, 1931.

Anesthesia—Methods and Operations

Amytal, Sodium, in Surgery, Intravenous Anesthesia with. A. L. Blesh, Oklahoma City. Oklahoma State Medical Association Journal, December, 1931.

Avertin Anesthesia. E. F. Goldschmidt and S. C. Harvey. Klinische Wochenschrift, January 9, 1932.

Avertin Anesthesia: Analysis of Fifty Consecutive Cases of Basal Anesthesia Induced by Avertin Fluid. R. H. Whitman and I. C. Munger, Jr., Lincoln. Nebraska State Medical Journal, January, 1932.

Avertin Anesthesia: From Anesthetist's Standpoint. J. Kreiselman, Washington, D. C. Annals of Surgery, November, 1931.

The Current Index of Anesthesia and Analgesia, 1932

- Avertin Basal Anesthesia with Ether, Nitrous Oxid-Oxygen and Ethylene, Clinical and Metabolic Studies of: From an Experience of Fifteen Hundred Cases. Hans Widenhorn, Freiburg, i. Brsg., Germany. Current Researches in Anesthesia and Analgesia, March-April, 1932.
- Avertin: From Surgical Standpoint. C. S. White, Washington, D. C. Annals of Surgery, November, 1931.
- Avertin Fluid: Report of 314 Basal Anesthetics Administered to 225 Patients. E. F. Goldschmidt and A. M. Hunt, New Haven, Conn. American Journal of Surgery, January, 1932.
- Avertin: Review of North American Literature and Personal Experiences, Anesthesia with. E. F. Goldschmidt and S. C. Harvey. Klinische Wochenschrift, January 2, 1932.
- Avertin as Rectal Anesthetic. L. W. Angle, Kansas City. Kansas Medical Society Journal, December, 1931.
- Avertin, Results of, Basal Anesthetics with Ether, Nitrous Oxygen and Ethylene, Based on Clinical and Metabolic Studies: Seven Hundred Cases. H. Widenhorn, Freiburg, Germany. Annals of Surgery, November, 1931.
- Barbiturates in Anesthesia, Discussion on the. M. Nierenstein, A. L. Fleming, H. Featherstone, F. Selby Tait, H. L. Shepherd, C. Langton Hewer, Sir Francis Shipway and E. J. Rubra. Proceedings Royal Society of Medicine, Section of Anesthetics, xxiv, 1931.
- Brain, Anesthesia for Operations on the Base of. Gilbert Brown, Adelaide, Australia. Current Researches in Anesthesia and Analgesia, March-April, 1932.
- Endotracheal Anesthesia: New Technique. A. E. Guedel, Beverly Hills, Calif. and R. M. Waters, Madison, Wis. Annals of Otology, Rhinology and Laryngology, December, 1931.
- Gas Anesthesia. Hans Widenhorn, Freiburg, i. Brsg., Germany. Münchener Medizinische Wochenschrift, 8, 301, 1932.
- Gravitational Method, Inhalation Anesthesia by a. Albert H. Miller, Providence, R. I. Current Researches in Anesthesia and Analgesia, March-April, 1932.
- Nitrous Oxid-Oxygen Anesthesia in Abdominal Operations. N. LaGravinese. Polyclinico, October 26, 1931.
- Nitrous Oxid-Oxygen Anesthesia: A Consideration of Some Associated Factors. E. I. McKesson, Toledo, Ohio. Current Researches in Anesthesia and Analgesia, March-April, 1932.
- Premedication. F. P. de Caux, London, England. Current Researches in Anesthesia and Analgesia, March-April, 1932.
- Rectal Ether Narcosis. E. Fermaud. Presse Medicale, November 21, 1931.
- Tonsillectomy Under General Anesthesia in Modified Rose Position. E. F. Ziegelman, San Francisco. Laryngoscope, January, 1932.

Apparatus

- Stiefenhofer's Apparatus, Critical Remarks on Nitrous Oxid-Oxygen Anesthesia by Means of. G. Eichelte. Zentralblatt für Chirurgie, October 24, 1931.

Anesthetics—Toxicity and Impurity

- Carbon Monoxid and Its Relation to Aircraft. Joel J. White. Traumatic Air Embolism in Submarine Escape Training. B. Polak and H. Adams. Analysis of Accident Occurring in Training with Submarine Lung. A. R. Behnke. U. S. Naval Medical Bulletin, April, 1932.
- Carbon Monoxid in Ethylene, Determination of Traces of. H. S. Booth and Madeline B. Campbell, Cleveland, Ohio. Industrial and Engineering Chemistry, January 15, 1932.
- Intoxication of Inhabitants of Lyons by Industrial Gases. Foreign Letters-Paris. Journal American Medical Association, January 9, 1932.

Anesthesia—Teaching and Hospital Service

- Record Sheet for Spinal Anesthesia. L. H. Maxson, Seattle. Northwest Medicine, November, 1931.

The Current Index of Anesthesia and Analgesia, 1932

Records, Spinal Anesthesia. R. C. Webb, Minneapolis. American Journal of Surgery, January, 1932.

Anesthetics—Therapeutic Use

Strychnin Poisoning, Antidotes for. Howard W. Haggard and Leon A. Greenburg, New Haven, Conn. Journal American Medical Association, April 21, 1932.

Blood and Blood Chemistry Studies

Leukocytes After Operations, Relation of. M. Dahle. Norsk Magasin for Laegevidenskapen, December, 1931.

Books—New Editions

Anesthesia in Surgery. Robert Monod, Paris. 156 pages and 23 illustrations. Masson & Company, Publishers, Paris.

Local Anesthesia in Otology, Rhinology and Laryngology. G. Canuyt and J. J. Joublot, Strasbourg, France. 232 pages, 97 illustrations and 4 charts. Masson & Company, Publishers, Paris.

Modern General Anesthesia. James G. Poe, M.D., Dallas, Texas. Second Revised and Enlarged Edition. 12 illustrations, 2 charts, 231 pages. F. A. Davis Co., Publishers, Philadelphia.

Spinal Anesthesia. Emile Forgue and Antoine Basset. Montpellier, France. 224 pages, and 23 illustrations. Masson & Company Publishers, Paris.

Blood Pressure Guides and Safeguards

Spinal Anesthesia, Blood Pressure During. H. Hadenfeldt. Archiv für klinische Chirurgie, January 2, 1932.

Circulatory Disturbances

Metrazol as Stimulant During Surgical Anesthesia. E. M. Strasser, Cincinnati. Ohio State Medical Journal, February, 1932.

Carbon Dioxid

Bronchitis and Early Pneumonia, Carbon Dioxid in the Treatment of Acute. James F. Alison, Selma, Ala. Southern Medical Journal, April, 1932.

Carbon Dioxid: Some Observations on Its Use and Abuse During Anesthesia. Douglas G. Renton, Melbourne, Australia. The Medical Journal of Australia, January 23, 1932.

Experiments on Optimal Action of Carbon Dioxid on Normal and Anesthetized Animals. H. J. von Brandis and H. Killian. Deutsche Zeitschrift für Chirurgie, October 2, 1931.

Spinal Anesthesia, Use of Carbon Dioxid in. M. Matousek. Zentralblatt für Gynäkologie, October 31, 1931.

Dentistry and Oral Surgery

Anesthesia: Local or General? Robert Friedman, New York City. Modern Dentistry, February, 1932.

Carbon Dioxid in Dental Anesthesia. J. A. Heidbrink, Minneapolis, Minn. Current Researches in Anesthesia and Analgesia, March-April, 1932.

Nembutal in Dental Surgery, Advantages of the Use of. Edward C. Stafne, Rochester, Minn. The Dental Cosmos, March, 1932.

Nitrous Oxid and Oxygen. Fred Morrison, Kokomo, Ind. Dental Cosmos, January, 1932.

Nitrous Oxid and Oxygen Anesthesia. Wm. H. Hyde and A. Berger, Brooklyn, N. Y. British Journal of Dental Science and Prosthetics, February, 1932.

Nitrous Oxid Anesthesia, A Practical Discussion of. H. B. Clark, St. Paul, Minn. Journal American Dental Association, March, 1932.

Deaths

Local Anesthetic, Fatal Coronary Occlusion Following an Injection of. E. Weiss, Philadelphia. Medical Journal and Record, January 20, 1932.

Evaluation Tests for Surgical Risk

Evaluation of Presumable Resistance of a Patient to a Proposed Intervention, Together with Anesthesia. G. Giordanengo. Riforma Medica, December 21, 1931.

The Current Index of Anesthesia and Analgesia, 1932

Local Anesthesia—Current Researches

Spinal Anesthesia, Circulatory Changes in. M. H. Seavers and R. M. Waters, Madison, Wis. Current Researches in Anesthesia and Analgesia, March-April, 1932.

Spinal Anesthesia, An Experimental Inquiry into. J. F. C. Johnston and V. E. Henderson, Toronto, Canada. Current Researches in Anesthesia and Analgesia, March-April, 1932.

Local Anesthesia—Dentistry and Oral Surgery

Block Anesthesia, A Practical Discussion of. Howard C. Miller, Chicago, Ill. Journal of the American Dental Association, January, 1932.

Local Anesthesia as a Cause of Postoperative Infection in Extraction of the Lower Molars. A. Gongora Duran. La Odontologia, December, 1931.

Local Anesthesia—Methods and Operations

Fractures of Long Bones and of Dislocations, Local Anesthesia in the Treatment of. R. J. Stabback, Sydney, Australia. Medical Journal of Australia, January 16, 1932.

Fractures, Use of Local Anesthesia in Treatment of. J. M. Hoffman, Pensacola. Florida Medical Association Journal, December, 1931.

Gynecologic Abdominal Operations, Simplified Improved Method of Local Anesthesia in. J. Frigyesi. Monatsschrift f. Geburtshulfe u. Gynäkologie, January, 1932.

Intra-Abdominal Local Anesthesia. R. P. Caron, Minneapolis. Minnesota Medicine, January, 1932.

Percain, Experiences With. R. W. Shaw. Irish Journal of Medical Science, January, 1932.

Spinal Analgesia Based on Three Hundred and Fifty-Seven Personal Cases, Study of. E. Garside, New Orleans. Annals of Surgery, November, 1931.

Spinal Analgesia with Special Reference to Operations Above the Diaphragm. A. Dickson Wright, London, England. Proceedings Royal Society of Medicine, Section of Anesthetics, xxiv, 1931.

Spinal Anesthesia. E. Vogt. Zentralblatt für Gynäkologie, October 31, 1931.

Spinal Anesthesia, Low. J. K. Hasler. Lancet, January 9, 1932.

Spinal Anesthesia with Nupercain and Procain. A. Harris and L. G. Goldberg, Brooklyn. Annals of Surgery, November, 1931.

Spinal Anesthesia. C. Anderson, Tampa. Florida Medical Association Journal, December, 1931.

Spinal (Lumbar) Anesthesia: Resumé of Seven Hundred and Fifty-One Cases. W. C. Stillwell, Mankato. Minnesota Medicine, February, 1932.

Spinal Anesthesia, Some Observations on. Chas. H. Richardson, Jr. Macon. Journal of the Medical Association of Georgia, March, 1932.

Spinal Anesthesia on a General Surgical Service. E. W. Saunders, New York. Annals of Surgery, November, 1931.

Spinal Anesthesia: Spinal Anesthesia Questionnaire and Series of Spinal Anesthetics. R. R. Cranmer and E. C. Henrikson, Minneapolis. Annals of Surgery, November, 1931.

Spinal Anesthesia, The Advantages of. Charles C. Green, Houston, Texas. Southern Medical Journal, March, 1932.

Spinal Anesthesia: Clinical Experiences in 430 Cases, and a Technique to Eliminate Postoperative Headache. A. J. Kennedy, Nambour, Queensland, Australia. Medical Journal of Australia, January 9, 1932.

Spinal Anesthesia, Postoperative Paralysis of Craniospinal Motor Nerves. C. Angelesco and S. Tzovaru. Presse Medicale, December 16, 1931.

Spinal Anesthesia, Preliminary Statistical Report of Work Conducted by the Department of Anesthesia, from January, 1931 to August, 1931 inclusive, at the Methodist Hospital, Indianapolis. M. B. Kast, Indianapolis, Ind. Medical Arts, February, 1932.

Tonsillectomy, Local Anesthesia for. J. B. H. Waring, Cincinnati, Ohio. The Medical World, February, 1932.

Urology, New Surface Anesthetic in. H. W. E. Walther, New Orleans. Journal of Urology, January, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Local Anesthesia—Toxicity and Impurity

Fatal Tissue Injury, Local Anesthesia with 0.5 Per Cent Procain Hydrochlorid Epinephrin Solution and. E. Boerner. *Zentralbatt für Chirurgie*, January 30, 1932.

Purpura Following Lumbar Anesthesia. F. Rost. *Klinische Wochenschrift*, December 19, 1931.

Medico-Legal Consideration

Carbon Monoxid, Accident Insurance and Death from. (Miller v. Inter-Ocean Casualty Co. (W. Va.), 158 S. E. 706). Medico-Legal. *Journal American Medical Association*, March 19, 1932.

Death During Reduction of Dislocation under Anesthesia. (Mulholland v. Grant & Fennel) Industrial Bulletin, State of New York, Department of Labor, February, 1932.

Liability of Charitable Hospital for Injury to Invitee. (Cohen v. General Hospital Soc. of Connecticut (Conn.), 154 Atl. 435), Medico-Legal. *Journal American Medical Association*, March 5, 1932.

Obstetrical Anesthesia and Analgesia

Local Anesthesia in Cervicosegmental Cesarean Section. D. A. Rojas. *Semana Medica*, December 24, 1931.

Local Anesthesia in Cases of Uterine Operations. J. Toyoshima. *Japanese Journal of Obstetrics and Gynecology*, December, 1931.

Local and Spinal Anesthesia, Cesarean Section Under. T. C. Davison and E. Boling, Atlanta. *Georgia Medical Association Journal*, January, 1932.

Pernocton as an Analgesic in Obstetrics: Review. J. D. Guess, Greenville. *South Carolina Medical Association Journal*, December, 1931.

Spinal Anesthesia in Abdominal Obstetric Operations, Observations on the Use of. M. F. Eades, Boston. *American Journal of Obstetrics and Gynecology*, March, 1932.

Oxygen Studies and Therapy

Lobar Pneumonia: Salt-Alkali Treatment with Allusion to Use of Carbon Dioxid Gas. W. T. Lander, Williamston. *South Carolina Medical Association Journal*, December, 1931.

Pneumonia, Reasons for Use of Carbon Dioxid with Oxygen in Treatment of. Y. Henderson, New Haven, Conn. *New England Journal of Medicine*, January 28, 1932.

Stimulation Agent, Modern Oxygen Treatment as a Nonspecific. Z. Danielski. *Polska Gazeta Lekarska*, January 17, 1932, January 24, 1932.

Studies in Asphyxia: II. Blood Chemistry Changes Resulting from Comparatively Rapid Asphyxia by Atmospheres Deficient in Oxygen. H. H. Schrenk, F. A. Patty and W. P. Yant. *Public Health Reports*, January 15, 1932.

Subcutaneous Injection of Oxygen. Adrian F. Burkard, Santa Barbara, Calif. *The Medical World*, March, 1932.

Widening Scope of Oxygen Therapy in the Treatment of Disease. A. L. Barach, New York, N. Y. *Current Researches in Anesthesia and Analgesia*, March-April, 1932.

Preoperative Complications

Diabetes Mellitus, Preoperative and Postoperative Medical Management in Cases of. C. H. Hofrichter, Seattle. *Northwest Medicine*, December, 1931.

Glucose Therapy in Preoperative and Postoperative Conditions, Value of Hypertonic. J. O. Polak, V. P. Mazzola and L. Zweibel, Brooklyn. *American Journal Obstetrics and Gynecology*, December, 1931.

Preanesthetic Medication, Recent Advances in. Harper E. Richey, Louisville. *Kentucky Medical Journal*, March, 1932.

Preoperative Preparation and Its Relation to Postoperative Complications. C. Mayo 2d, Rochester, Minn. *Iowa State Medical Society Journal*, February, 1932.



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4. Designing and Building an Oxygen Therapy Unit. *Mod. Hosp.* 37:81-84 (December) 1931
5. Effects of Treatment With Oxygen in Cardiac Failure. *Arch. Inst. Med.* 48:325-347 (August) 1931
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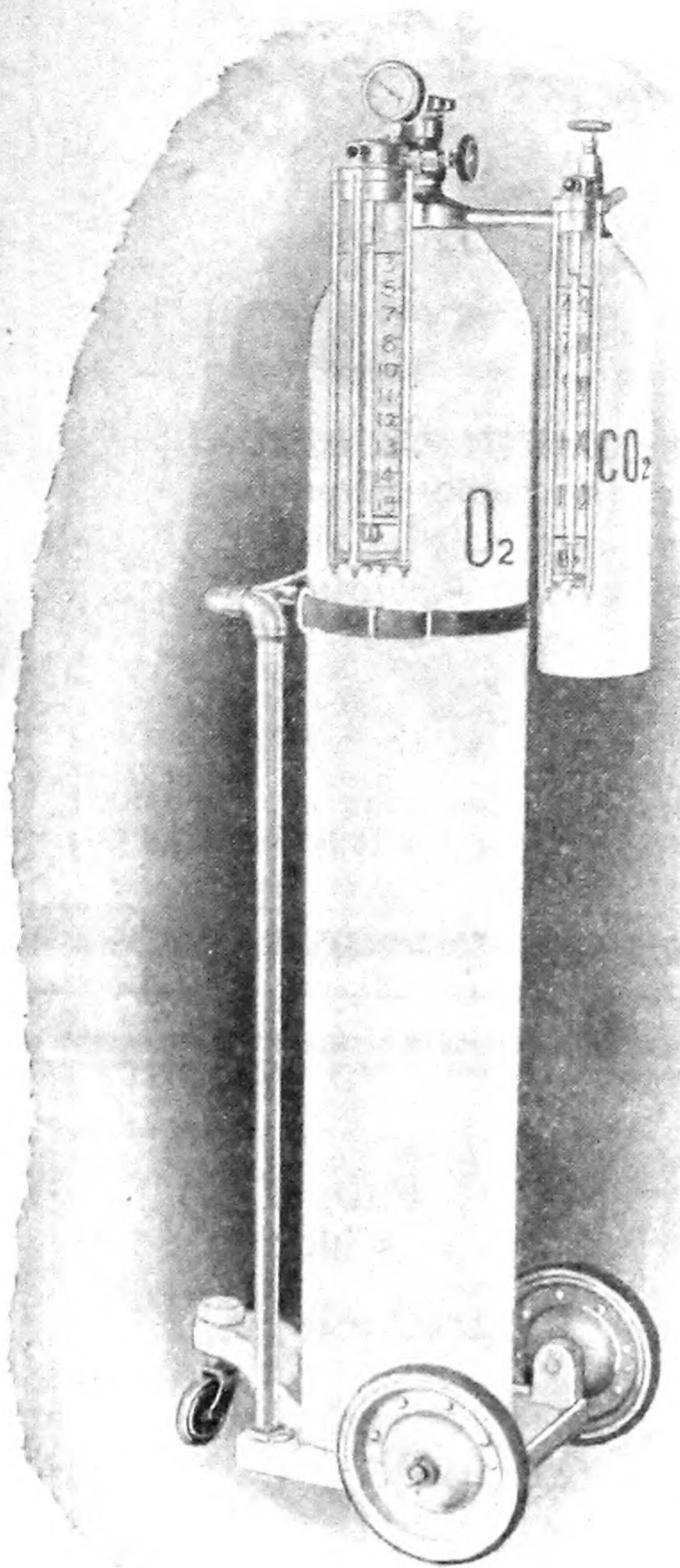
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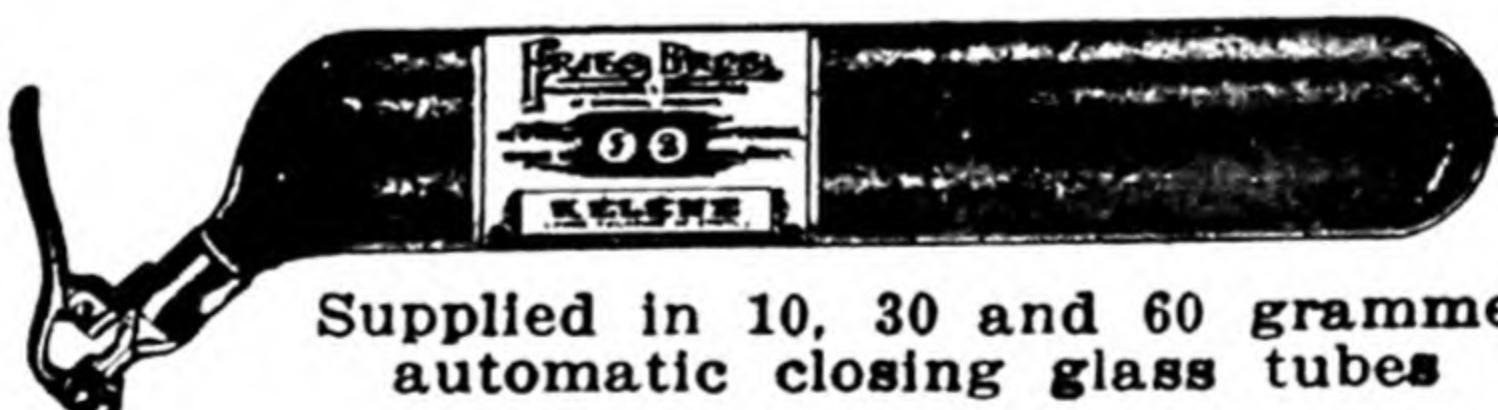


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Postoperative Complications

- Atelectasis: Postoperative Massive Collapse of Lung: Clinical and Experimental Study. D. Band and I. S. Hall. British Journal of Surgery, January, 1932.
- Atelectasis: A Postoperative Indication for Diathermy. J. F. Kelly, Omaha. Archives of Physical Therapy, X-Ray, Radium, February, 1932.
- Hemorrhage After Suprapubic Prostatectomy, Treatment of Secondary. A. Fullerton. British Medical Journal, December 12, 1931.
- Physical Therapy in General Surgery, Routine Postoperative Use of. H. C. Miller, Omaha. Archives of Physical Therapy, X-Ray, Radium, February, 1932.
- Tonsillectomy, Control of Pain Following. A. F. Laszlo, New York. Laryngoscope, January, 1932.

Resuscitation

- Asphyxia in the New-Born and of Dyspneic Conditions in the New-Born and in Nurslings, Treatment of, by Means of Carbon Dioxid Gas Mixtures. R. Wiener. Archiv für Kinderheilkunde, December 19, 1931.

Shock

- Hemorrhage and Shock in Traumatized Limbs: Changes in Total, Free and Bound Water of Blood and Muscle. W. Robinson and Eloise Parsons, Chicago. Archives of Pathology, December, 1931.

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The Current Index of Anesthesia and Analgesia

Anesthesia—Current Researches

- Barbituric Acid Hypnotics as a Basis of Classification, The Duration of Action of the. R. H. Fitch and A. L. Tatum. Journal Pharmacology and Experimental Therapy, March, 1932.
- Chloroform Anesthesia. R. W. Hornabrook, Melbourne. Medical Journal of Australia, March 26, 1932.
- Encephalography Under Narcosis Produced by Nonvolatile Anesthetics: A Note on the Technique. H. C. Solomon and S. H. Epstein, Boston, Mass. Journal American Medical Association, May 21, 1932.
- Spasm and Sleep Producing Physiological Substances in the Brain, The Action of. Kroll. Medizinische Klinik, February, 1932.
- Theory of Narcosis, Claude Bernard's. V. E. Henderson and G. H. W. Lucas, Toronto, Canada. Journal of Pharmacology and Experimental Therapy, February, 1932.
- Therapeutic Action and Scope of Narcotics, Some Observations on the. Oscar Eichler, Schmerz, Narkose-Anaesthesia, February-March, 1932.

Anesthesia—General Considerations

- Anesthesia Experiences in America. H. Widenhorn, Freiburg, i. Brsg., Germany. Deutsche medizinische Wochenschrift, No. 14, 1932.
- Agents Used in Anesthesia, An Outline of Some of the Advantages and Disadvantages of Various. John S. Lundy, Rochester, Minn. Minnesota Medicine, April, 1932.
- What Anesthetic? T. B. Hubbard, Montgomery. Alabama Medical Association Journal, January, 1932.

Anesthesia—Methods and Operations

- Anesthesia and Analgesia, Remarks on. C. C. Marston, Glasgow. British Journal of Anesthesia, April, 1932.
- Avertin Anesthesia. Paris Letter, Journal American Medical Association, April 16, 1932.
- Avertin Anesthesia. E. H. Stumpf, Buffalo. New York State Journal of Medicine, February 1, 1932.
- Avertin as an Anesthetic: A Clinical Study. J. D. Kirshbaum and Shirley Maisnik, Chicago. Clinical Medicine and Surgery, May, 1932.
- Basal Narcotics and Premedication in Anesthesia. R. W. Hornabrook, Melbourne, Australia. The General Practitioner, March 15, 1932.
- Basal Narcosis in Surgical Operations and Childbirth with Special Reference to Pernocton and Avertin, Practical Observations on. Frankenstein, Cologne, Germany. Schmerz, Narkose-Anaesthesia, February-March, 1932.
- Carbon Dioxid Absorption from Anesthetic Mixtures. Ralph M. Waters, Madison, Wis. Current Researches in Anesthesia and Analgesia, May-June, 1932.
- Donts in Anesthesia. T. C. Burns, Buffalo. New York State Journal of Medicine, February 1, 1932.
- Endotracheal Anesthesia and Suction in Thoracoplasty for Pulmonary Tuberculosis, A Method of Combined: Results in Forty-One Cases (79 Operations). Pol N. Coryllos, New York, N. Y. Current Researches in Anesthesia and Analgesia, May-June, 1932.
- Ether Narcosis, Technique of Drop. W. Sigwort. Deutsche medizinische Wochenschrift, February 19, 1932.
- Ether and Nitrous Oxid-Oxygen Anesthesia. J. H. Evans, Buffalo. New York State Journal of Medicine, February 1, 1932.

The Current Index of Anesthesia and Analgesia, 1932

- Gas Anesthesia. H. Widenhorn. Münchener medizinische Wochenschrift, February 19, 1932.
- Hypnosis and Anesthesia. Bernard Hollander. British Journal of Anesthesia, April, 1932.
- Intravenous Anesthesia, Failures, Dangers and Unforeseen Complications with Ether, Hedonal, Avertin, Isopral, Pernocton, Somnifen and Numal. S. Talmud, Leningrad, Russia. Schmerz, Narkose-Anaesthesia, February-March, 1932.
- Medication, Preoperative. Caroline B. Palmer, San Francisco. California and Western Medicine, May, 1932.
- Newer Anesthesia. B. B. Ranson, Jr., Maplewood, N. J. Journal of the Medical Society of New Jersey, May, 1932.
- Pernocton for Electro-Coagulations, Observations on. R. Hummel. Schmerz, Narkose-Anaesthesia, December, 1931, January, 1932.
- Problems of Modern Technique of Anesthesia During Surgical Operations. H. Hilarowicz. Polska Gazeta Lekarska, February 7 and 14, 1932.

Apparatus

- Cecil-Plummer Oxygen Therapy Apparatus. Journal American Medical Association, April 16, 1932.

Anesthesia—Toxicity and Impurities

- Nembutal: An Antidote. D. Ewen Cameron, and R. McCulloch, Brandon. Canadian Medical Association Journal, April, 1932.
- Picrotoxin as an Antidote in Acute Poisoning by the Longer Acting Barbiturates. A. H. Maloney and A. L. Tatum. Journal Pharmacology and Experimental Therapy, March, 1932.

Anesthesia—Therapeutic Use

- Cardiac Disease: Preliminary Report, Intravenous Hypertonic Glucose in Treatment of. H. B. Sprague and P. D. Camp, Boston. New England Journal of Medicine, February 11, 1932.
- Eclampsia, Oral Administration of Sodium Amytal in. E. C. Hamblen and D. O. Hamblin, University, Va. American Journal of Obstetrics and Gynecology, April, 1932.
- Pernocton Twilight Sleep in Abortive Treatment. K. F. Fecht. Zentralblatt für Gynäkologie, No. 5:290, 1932.
- Psychiatry, Pernocton in the Practice of. W. H. Crohn. Medizinische Klinik, February, 1932.
- Seasickness, Sodium Amytal—Its Value in. Harold Hamilton, Honolulu, Hawaii. California and Western Medicine, May, 1932.
- Toxemia of Pregnancy, Sodium Amytal in Treatment of. R. Kennedy, Detroit. Michigan State Medical Society Journal, March, 1932.
- Tetanus and Severe States of Excitement of Meningitis, Contribution to the Treatment of, with Pernocton. W. Behr. Medizinische Klinik, No. 2, 1932.
- Treatment of Bronchitis by Means of Ether According to Bier. H. Strehl. Münchener medizinische Wochenschrift, February 12, 1932.

Blood and Blood Chemistry Studies

- Avertin, Effect of, on Blood Sugar, Rectal Anesthesia with. J. M. Wollesen. Hospitalstidende, January 14, 1932.

Books—New Editions

- Modern Treatment Anesthesia. W. Stanley Sykes, M.R.C.S., Anesthetist: With a Section on Local Anesthesia. P. J. Moir, F.R.C.S., Surgeon, General Infirmary at Leeds, England. 123 Pages Illustrated. W. W. Norton Co., Inc., New York, Publishers.

Blood Pressure Guides and Safeguards

- Blood Pressure as Safeguards in Anesthesia. C. J. Durshordwe, Buffalo. New York State Journal of Medicine, February 1, 1932.

Circulatory Disturbances

- Chloroform Anesthesia: Electrocardiographic Reactions. R. W. Hornabrook, Melbourne. Medical Journal of Australia, March 26, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Heart Size and Body Build, Relationship of, to Cardiovascular Efficiency. H. A. Treadgold and H. L. Burton. Lancet, February 6, 1932.

Carbon Dioxid

Carbon Dioxid: Its Aid to Anesthetics. E. H. Stumpf, Buffalo. New York State Journal of Medicine, February 1, 1932.

Dentistry and Oral Surgery

General Anesthesia, Dental Phases of. Harry M. Seldin, New York, N. Y. Current Researches in Anesthesia and Analgesia, May-June, 1932.

Deaths

Status Lymphaticus, Studies in, and Its Relation to Anesthetic Deaths. W. N. Kemp, Vancouver, B.C., Canada. Current Researches in Anesthesia and Analgesia, May-June, 1932.

Historical Considerations

William Thomas Greene Morton, A Visit to the Birthplace of. A. H. Miller, Providence, R. I. Current Researches in Anesthesia and Analgesia, May-June, 1932.

Local Anesthesia—Dentistry and Oral Surgery

Carpule Anesthesia And Its Simplicity in Pain Relief in Ambulance Dentistry. F. W. Hopstein, Schwarzenberg, Germany. Schmerz, Narkose-Anaesthesie, February-March, 1932.

Extraction of Teeth: Emphasizing the Advantages of Local Anesthesia in Difficult Cases. B. S. Gardner, Rochester, Minn. Oral Health, April, 1932.

Local Anesthesia—Methods and Operations

Infiltration Anesthesia. M. Clinton, Buffalo. New York State Journal of Medicine, February 1, 1932.

Pantocain, Histo-Pathological and Clinical Studies in. Piero Marri. Rassegna Internazionale, March, 1932.

Spinal Anesthesia. J. B. Mulholland, Buffalo. New York State Journal of Medicine, February 1, 1932.

Spinal Anesthesia. C. C. Keeler. Medical Bulletin Veterans Administration. February, 1932.

Spinal Anesthesia: Benefits Conferred on Patient and Surgeon. R. H. Jackson, Madison. Wisconsin Medical Journal, March, 1932.

Spinal Anesthesia in Gynecology. A. Gabrielianz, Chicago. Illinois Medical Journal, March, 1932.

Spinal Anesthesia, Percain in. B. B. Dikshit and D. H. Rao. Indian Medical Gazette, February, 1932.

Spinal Anesthesia, Recent Advances in. E. G. van Hoogstraten. South Africa Medical Association Journal, January 23, 1932.

Spinal Anesthesia: Records and Conclusions. L. H. Maxson, Seattle. Northwest Medicine, February, 1932.

Spinal Anesthesia: Tonsillectomy Under, Report of Case. H. Cohen, New York. Medical Journal and Record, March 2, 1932.

Spinal Anesthesia, Two Years' Experience with. F. E. Butler, Menomonie. Wisconsin Medical Journal, March, 1932.

Subarachnoid Block as Applied to Gravity Control Technique, Variables in. H. V. Larson, Seattle. Northwest Medicine, February, 1932.

Traumatic Surgery, Local Anesthesia as a Factor in Reducing Morbidity of. M. D. Willcutts, Great Lakes, Ill. Surgery, Gynecology and Obstetrics, February 15, 1932.

Local Anesthesia—Toxicity and Impurities

Lumbosacral Radicular Paralysis After Spinal Anesthesia. O. Copello, V. Dimitri and J. Main. Bol. y Trab. de la Soc. de Cirugia, December 2, 1931.

Local Anesthesia—Therapeutic Use

Sciatica, Value of Epidural Block in. L. F. Miller, Chicago. Medical Journal and Record, March 2, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Obstetrical Anesthesia and Analgesia

- Pernocton in Scopolamin-Caffein Twilight Sleep in Obstetrics. L. Margulies, Wiener Klinische Wochenschrift, February, 1932.
- Rectal Ether Analgesia in Childbirth. W. J. Stevens, Ottawa. Canadian Medical Association Journal, February, 1932.
- Sodium Isoamylethyl Barbiturate and Nitrous Oxid-Oxygen, Obstetrical Analgesia and Anesthesia with: Results in Obstetrical Practice. Newlin F. Paxson, Philadelphia, Pa. Current Researches in Anesthesia and Analgesia, May-June, 1932.
- Sodium Isoamylethyl Barbiturate and Nitrous Oxid-Oxygen, Obstetrical Analgesia and Anesthesia with. Henry S. Ruth, Philadelphia, Pa. Current Researches in Anesthesia and Analgesia, May-June, 1932.

Oxygen Therapy and Studies

- Cerebrospinal Fluid, Effects of Low Alveolar Oxygen and High Alveolar Carbon Dioxid on Rate of Flow of. H. Nicholson, Ann Arbor, Mich. American Journal of Physiology, February, 1932.
- Effects of Oxygen Therapy: Observations on the: Clinical Observations in Heart Disease. W. W. Hamburger, L. N. Katz, D. J. Cohn and S. H. Rubinfeld, Chicago, Ill. Journal of the American Medical Association, May 21, 1932.
- Ventilation Equivalent for Oxygen. H. W. Knipping and A. Moncrieff. Quarterly Journal of Medicine, January, 1932.

Postoperative Complications

- Atelectasis and Massive Collapse of Lung. E. H. Risley, Waterville, Maine Medical Journal, January, 1932.
- Patient, Postoperative. N. N. Crohn, Chicago. Illinois Medical Journal, March, 1932.
- Rectal and Anal Cases, Postoperative Care of. H. F. Bayard, Minneapolis. Minnesota Medicine, March, 1932.
- Renal Function, Action of Avertin in Abolition of. H. Jacobi. Zentralblatt für Chirurgie, February 13, 1932.

Preoperative Complications

- Pregnancy, High Blood Pressure as an Early Sign of Toxemia of. F. J. Browne. British Medical Journal, February 20, 1932.

Respiration

- Intrapleural Pressures and Their Clinical Significance, Factors Altering. S. Brill, M. Prinzmetal and H. Brunn, San Francisco. Journal of Thoracic Surgery, February, 1932.
- Mechanism of Postural Reduction in Vital Capacity in Relation to Orthopnea and Storage of Blood in the Lungs. W. F. Hamilton and A. B. Morgan, Louisville, Ky. American Journal of Physiology, February, 1932.
- Respiratory Metabolism of Cat, Effect of Adrenal Cortical Hormone on. B. Webster, J. J. Pfiffner and W. W. Swingle, New York. American Journal of Physiology, February, 1932.

Resuscitation

- Resuscitation. A. H. Miller, Providence. Rhode Island Medical Journal, March, 1932.

Shock

- Hemorrhage, Trauma, Histamin and Spinal Anesthesia on Composition of Blood When No Fluids Are Injected and When Fluids are Introduced Intravenously, Study of Effects of. J. W. Beard, H. Wilson, B. M. Weinstein and A. Blalock, Nashville, Tenn. Journal of Clinical Investigation, March, 1932.
- Processes in Circulation During Shock. G. Ganter and A. Schretzenmayr. Klinische Wochenschrift, February 6, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Current Researches in Anesthesia and Analgesia

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The Current Index of Anesthesia and Analgesia

Anesthesia—Current Researches

Amytal, Sodium, Pharmacologic Properties of. R. C. Garry. British Medical Journal, March 5, 1932.

Avertin Anesthesia, Exchange in, and Their Modification by Oxygen and Carbon Dioxide Reinhala-tion. H. Fuss and E. Derra. Deutsche Zeitschrift für Chirurgie, April 7, 1932.

Barbituric Acid Hypnotics, Duration of Action of, as Basis of Classification. R. H. Fitch and A. L. Tatum, Madison, Wis. Journal of Pharmacology & Experimental Therapy, March, 1932.

Chemicals in Organs Following Fatality After Basic Anesthesia with Avertin. L. Schonbauer and R. Links. Zentralblatt für Chirurgie, April 9, 1932.

Anesthesia—General Considerations

Barbiturates on Surgical Trial. J. W. Baker, Seattle. Northwest Medicine, March, 1932.

Anesthesia—Method and Operations

Anesthetic Agents. Meyer Saklad, Boston, Mass. American Journal of Surgery, June, 1932.

Avertin. Editorial, The Medical Journal of Australia, May 21, 1932.

Avertin Anesthesia. B. Weinbren. South African Medical Association Journal, March 12, 1932.

Avertin as Basal Anesthetic. F. W. Marvin, Boston. New England Journal of Medicine, March 24, 1932.

Avertin as an Anesthetic in Eye Surgery. F. A. Davis, Madison, Wis. American Journal of Ophthalmology, March, 1932.

Avertin Basic Anesthesia, Combination of, with Ether, Nitrous Oxid and Ethylene. H. Widenhorn. Deutsche Zeitschrift für Chirurgie, April 7, 1932.

Basal Narcosis in Gynecology in the Tropics. V. B. Green-Armytage. Indian Medical Gazette, January, 1932.

Choice of Anesthesia. V. E. Johnson, Atlantic City, N. J. American Journal of Surgery, April, 1932.

Ear, Nose and Throat Operations, General Anesthesia in. G. W. B. Daniell. South African Medical Association Journal, February 13, 1932.

Endobronchial Anesthesia, Closed, in Thoracic Surgery: Preliminary Report. J. W. Gale and R. M. Waters, Madison, Wis. Journal of Thoracic Surgery, April, 1932.

Endotracheal Inhalation of Ether. Geoffrey Kaye, Melbourne. The Medical Journal of Australia, May 14, 1932.

Modern Methods of Anesthesia. H. Steindl. Wiener klinische Wochenschrift, March 11, 1932.

Narcosis, Preoperative. Lincoln F. Sise. Surgery from the Lahey Clinic, Surgical Clinics of North America, Boston Number, May 28, 1932.

Pernocton, Practical Comments on. Kurt Frankenstein. Zentralblatt für Gynäkologie, May 21, 1932.

Selection of the Anesthetic Agent or Method. Charles F. McCuskey, Rochester, Minn. New Orleans Medical and Surgical Journal, July, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Anesthesia—Toxicity and Impurities

- Chloroform Poisoning, Delayed. H. J. Stander, New York City. American Journal of Obstetrics and Gynecology, June, 1932.
- Ethylene for Anesthesia, Examination of. The Chemical Laboratory. Journal American Medical Association, June 18, 1932.
- Explosions in Gas Anesthetic Devices, Possible Cause of. John S. Lundy, Rochester, Minn. Journal American Medical Association, July 9, 1932.
- Picrotoxin as an Antidote in Acute Poisoning by Longer Acting Barbiturates. A. H. Maloney and A. L. Tatum, Madison, Wis. Journal of Pharmacology & Experimental Therapy, March, 1932.

Anesthesia—Therapeutic Use

- Eclampsia, The Use of Sodium Amytal in the Treatment of. E. L. King, George A. Mayer, T. B. Ayo, New Orleans, La. American Journal of Obstetrics and Gynecology, June, 1932.
- Eclampsia, Treatment of, with Pernocton. E. Vogt. Zentralblatt für Gynäkologie, May 21, 1932.
- Eclampsia, Treatment of, with Pernocton. H. Frohman. Deutsche medizinische Wochenschrift, May 20, 1932.
- Eclamptic Convulsions, Sodium Amytal and Its Use in the Treatment of. G. Leslie Watt, Toronto. Canadian Medical Association Journal, July, 1932.
- Respiration, Indications for Therapeutic Use of Carbon Dioxid. K. Hitzenberger. Wiener klinische Wochenschrift, February 26, 1932.
- Strychnin Poisoning, The Treatment of. Editorial, Journal of American Medical Association, June 4, 1932.

Anesthesia—Teaching and Hospital Service

- Hospital Anesthesia Service. Editorial, Medical Arts and Indianapolis Medical Journal, June, 1932.

Blood Chemistry and Blood Studies

- Avertin Concentration in Blood, Influence of Thyroxin on. W. Nell. Klinische Wochenschrift, February 27, 1932.

Circulatory Disturbances

- Avertin Anesthesia, Blood Pressure Fall Occurring in. G. W. Taylor and C. C. Lund, Boston. New England Journal of Medicine, March 24, 1932.
- Sodium Phenobarbital, Influence of, on Cardiac Action of Pituitary Extract. B. B. Raginsky and R. L. Stehle, Montreal, Canada. Journal of Pharmacology and Experimental Therapy, April, 1932.

Carbon Dioxid

- Postanesthetic Respiratory Complications, Carbon Dioxid in Prophylaxis and Cure of. J. R. Mackenzie. British Medical Journal, March 26, 1932.

Historical Consideration

- E. H. Embley Memorial Lecture. W. A. Osborne, Melbourne. Medical Journal of Australia, May 28, 1932.

Local Anesthesia—Current Researches

- Cocain Sensitization-Desensitization Phenomena, Role of Chemical Structure of Cocain in. S. K. Wirt and M. L. Tainter, San Francisco. Journal of Pharmacology & Experimental Therapy, March, 1932.
- Pantocain, Pharmaco-Pathological and Clinical Observations on. Piero Marri, Sienna, Italy. Rassegna Internazionale di Clinica e Terapia, April, 1932.
- Toxicities and Efficiencies of Local Anesthetics, Estimation of Relative. A. D. MacDonald and M. C. G. Israels, Manchester, England. Journal of Pharmacology & Experimental Therapy, March, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Local Anesthesia—Dentistry and Oral Surgery

- Acceleration of Local Anesthesia and Alleviation of Postoperative Sequelae by Alkalization of Procain Solutions. H. E. Harvey, C. C. DeFord and C. C. Eller. *Dental Cosmos*, June, 1932.
- Hypodermic Needles Broken in the Region of the Mandible and Maxilla; The Problem of, Report of a Case. Theodor Blum, New York City. *Journal of the American Dental Association*, July, 1932.
- Nupercain, A Local Anesthetic: Preliminary Report. C. C. Wahl, San Francisco, Calif. *Journal of the American Dental Association*, June, 1932.
- Status of Local Anesthesia in Dental Practice. Leo Stern. *Dental Outlook*, June, 1932.

Local Anesthesia—Methods and Operations

- Basal Narcosis and Local Anesthesia in Oto-Laryngology. Paul Frohn. *Zeitschrift für Hals, Nasen und Ohrenheilkunde*, 30:82, 1931.
- Duration of Spinal Anesthesia. W. Nissel. *Zentralblatt für Chirurgie*, March 12, 1932.
- Epidural Anesthesia with Nupercain, Fifty Cases of. L. Phelip. *Journal d'Urologie Medicale et Chirurgicale*, March, 1932.
- Infiltration Anesthesia; Procain. Martin I. Green, San Francisco. *California and Western Medicine*, June, 1932.
- Intraperitoneal and Intravenous Administration, New Method of Anesthesia by. V. Sanchis Perpina and R. Diaz Sarasola. *Beitrage zur klinischen Chirurgie*, February 17, 1932.
- Iris Anesthesia by Retrobulbar Injection and Paralysis of Orbicularis Oculi by Seventh Nerve Block. L. B. Somerville-Large. *British Journal of Ophthalmology*, March, 1932.
- Local Anesthesia in Surgery of Biliary Tract. A. V. Vishnevsky. *Kazansky Meditsinsky Journal*, January, 1932.
- Local Anesthesia, Practice of Surgical Interventions Under. H. V. de Paula. *Revue Sud-Am. de Med. et de Chir.*, March, 1932.
- Lumbar Anesthesia. W. Rabinowitsch. *Deutsche Zeitschrift für Chirurgie*, April 7, 1932.
- Lumbar Anesthesia, the So-Called Peridural Anesthesia, New Method of. J. M. Martinez, Sagarra. *Archivos de Medicina, Cirugia y Espec.*, February 27, 1932.
- Nupercain in Spinal Anesthesia. Hall G. Holder, San Diego, Calif. *American Journal of Obstetrics and Gynecology*, June, 1932.
- Peridural Anesthesia, Technique of. Boll. e Memorie d. Soc. Piemont. d. Chir., February 6, 1932.
- Preparation and Care of Patient, Operation Under Local Anesthesia. W. Moffatt. *Lancet*, March 26, 1932.
- Postoperative Pulmonary Complications: A Comparison of Spinal and Ether Anesthesia. Lincoln F. Sise. *Surgery from the Lahey Clinic, Surgical Clinics of North America*, Boston Number, May 28, 1932.
- Regional Anesthesia, Its Modern Technique and Therapeutic Application. M. B. Greene, Brooklyn. *California and Western Medicine*, June, 1932.
- Spinal Anesthesia. Arthur E. Brown, Colas, Victoria. *Medical Journal of Australia*, May 14, 1932.
- Spinal Anesthesia. Harrison C. Ragsdale, Bedford. *Journal Indiana State Medical Association*, June, 1932.
- Spinal Anesthesia, Advantages of. C. C. Green, Houston, Texas. *Southern Medical Journal*, March, 1932.
- Spinal Anesthesia, Care of the Patient Before, During and After Induction of. Harry Subin, Atlantic City. *Journal of the Medical Society of New Jersey*, June, 1932.
- Spinal Anesthesia, The Control of, Blood Pressure in. Lincoln F. Sise. *Surgery from the Lahey Clinic, Surgical Clinics of North America*, Boston Number, May 28, 1932.
- Spinal Anesthesia: Report of Its Use in Five Hundred and Eighteen Cases.

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The Current Index of Anesthesia and Analgesia, 1932

- V. Roberts, S. B. Woodward and W. F. Coakley. Medical Bulletin of Veterans' Administration, April, 1932.
- Spinal Anesthesia, Some Observations on. C. H. Richardson, Macon. Georgia Medical Association Journal, March, 1932.
- Spinal Anesthesia, The Technique and Indications for. J. Gould Gardner, Columbia, Miss. New Orleans Medical and Surgical Journal, June, 1932.
- Tonsillectomy, Local Anesthesia in. H. A. Trotter, Buffalo. Archives of Otolaryngology, March, 1932.
- Tonsillectomy by Means of Infiltration Anesthesia with Sterile Tap Water. Finis L. Anderson, Springfield, Mo. The Medical World, June, 1932.

Local Anesthesia—Therapeutic Use

- Aneurysms of the Aortic Arch, Painful, Relief by Paravertebral Injections of Procain and Alcohol. James C. White, Boston. Journal American Medical Association, July 2, 1932.
- Tetanus with Procain Hydrochlorid, Treatment of. F. Mandl. Zentralblatt für Chirurgie, March 26, 1932.

Obstetrical Anesthesia and Analgesia

- Country Practice, Obstetric Anesthesia in. L. H. Hoover, Clarksville. Virginia Medical Monthly, April, 1932.
- Pernocton Sleep in Gynecology and Obstetrics, The Purpose and Effectiveness of. Frank Wolff. Medizinische Welt, April 30, 1932.
- Sodium Amytal, When Used as an Obstetric Analgesic and Anesthetic, The Effect Upon the Newborn Child. George S. Littell, Dallas, Texas. American Journal of Obstetrics and Gynecology, May, 1932.
- Sodium Amytal and Scopolamin Anesthesia During Labor, A Preliminary Report on the Use of. H. Bristol Nelson, Boston, Mass. American Journal of Obstetrics and Gynecology, May, 1932.
- Spinal Anesthesia in Abdominal Obstetric Operations, Observations on Use of. M. F. Eades, Boston. American Journal Obstetrics and Gynecology, March, 1932.

Oxygen Therapy and Studies

- Periodic Ventilation as Induced by Exposure to High Pressure of Oxygen. J. W. Bean, Ann Arbor, Mich. American Journal of Physiology, March, 1932.

Preoperative Complications

- Abdominal Surgery, Preoperative and Postoperative Treatment in. I. Abell, Louisville. Kentucky Medical Journal, April, 1932.
- Goiter, Cardiac Features of, Especial Reference to Operation. J. deJ. Pemberton and F. A. Willius, Rochester, Minn. Annals of Surgery, April, 1932.
- Kidney, Preoperative and Postoperative Treatment of Surgical Diseases of the, From the Medical Standpoint. David Riesman, Philadelphia. Pennsylvania Medical Journal, June, 1932.
- Pregnancy and Its Late Toxemias, A Study of Blood and Urinary Amylase in. A. N. Arneson and K. C. Morrin, St. Louis, Mo. American Journal of Obstetrics and Gynecology, May, 1932.
- Pregnancy, Normal, and Eclamptogenic Toxemia, Blood Chemistry Study in. Samuel Kaplan, Chicago, Ill. American Journal of Obstetrics and Gynecology, May, 1932.

Postoperative Complications

- Atelectasis, Massive, Etiology and Mechanics of. E. Korol, Lincoln. Nebraska State Medical Journal, March, 1932.
- Atelectasis in the New-Born. Ethel C. Dunham, New Haven, Conn. American Journal of Diseases of Children, March, 1932.
- Circulatory Therapy, Postoperative. G. von Bergmann. Deutsche medizinische Wochenschrift, April 1, 1932.
- Lung, Massive Collapse of. L. R. Jones. Medical Bulletin of Veterans' Administration, March, 1932.

The Current Index of Anesthesia and Analgesia, 1932

- Lung, Postoperative Massive Collapse of: Report of a Case. Arthur A. Thieda, Cicero, Ill. Clinical Medicine and Surgery, June, 1932.
- Phlebitis, Thrombosis and Embolism, Postoperative. E. Dahl-Iversen and E. Ramberg. Hospitalstidende, February 25, 1932.
- Pulmonary Complications, Postoperative, Difficulties in Differentiation of. Richard H. Overholt and J. Ross Veal. Surgery from the Lahey Clinic, Surgical Clinics of North America, Boston Number, May 28, 1932.

Respiration

Comparison of Response of Anesthetized Dog to Lowered Alveolar Oxygen During Uniform Artificial Ventilation and During Normally Controlled Ventilation. R. Gesell, H. Krueger, H. Nicholson, C. Brassfield and Marie Pelecovich, Ann Arbor, Mich. American Journal of Physiology, March, 1932.

Risk—Surgical and Anesthetic

Heart Disease, Operative Risk in. E. F. Horine, Louisville. Kentucky Medical Journal, April, 1932.

Resuscitation

Respiratory Failure Treated by Endotracheal Insufflation. Gilbert Brown, Adelaide. The Medical Journal of Australia, April 23, 1932.

Shock

Shock. B. Montenegro. Annaes Paulistas de Medicina e Cirurgia, June, 1932.

Shock. J. K. Berman, Indianapolis. Journal Indiana State Medical Association, June, 1932.

Electric Shock, Current Flowing Through Heart Under Conditions of. W. B. Kouwenhoven, D. R. Hooker and O. R. Langworthy. American Journal of Physiology, April, 1932.

Histamin Shock, Combined Ephedrine-Pituitary Extract (Posterior Lobe) Therapy in. K. I. Melville, Montreal. Journal of Pharmacology & Experimental Therapy, March, 1932.

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Supplement—November-December, 1932 Issue

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Current Index of Anesthesia and Analgesia

Anesthesia—Current Researches

Barbiturate. Antagonism with Strychnin and Picrotoxin, Comparative Studies in. A. H. Malonly. Journal of Pharmacology and Experimental Therapy, July, 1932.

Chloroform, Fluorine Derivatives of. Harold S. Booth and E. May Bixby, Cleveland, Ohio. Industrial and Engineering Chemistry, June, 1932.

Dial, Amytal and Nembutal, Used as Surgical Anesthetic, Observation on the Same Chimpanzee to. J. F. Fulton, New Haven, Conn. and A. D. Keller, Tuscaloosa, Ala. Surgery, Gynecology and Obstetrics, May, 1932.

Hypnotic Action, the Chemical Basis of, as an Index of Clinical Efficiency. Horace A. Shonle, Indianapolis, Ind. Current Researches in Anesthesia and Analgesia, September-October, 1932.

Physio-Chemists, Anesthetics and Anesthetists. H. Boyd Stewart, Tulsa, Okla. Current Researches in Anesthesia and Analgesia, November-December, 1932.

Anesthetics—Methods and Operations

Abdominal Surgery, Choice of an Anesthetic for. H. Finsterer, Vienna, Austria. British Journal of Anesthesia, July, 1932.

Amytal, Sodium: Analysis of Intravenous Use in One Hundred and Seventy-Two Surgical Operations. H. Cabot, Rochester, Minn. and W. G. Maddock and H. Lamb, Ann Arbor, Mich. Archives of Surgery, May, 1932.

Amytal, Sodium, Administration, Review of the Literature and Preliminary Report on 48 Cases of. Rose H. Andre, New York City. Current Researches in Anesthesia and Analgesia, July-August, 1932.

Amytal, Sodium, Intravenous, as Adjunct in Anesthesia. H. K. Ransom, Ann Arbor, Mich. Archives of Surgery, June, 1932.

Avertin Anesthesia, Clinical Experience with. C. C. Greer, Clarksburg. West Virginia Medical Journal, June, 1932.

Avertin Anesthesia. J. A. Duff, Martinsburg. West Virginia Medical Journal, June, 1932.

Avertin Basal Anesthesia. E. Leslie Burwell, New Rochelle, N. Y. Current Researches in Anesthesia and Analgesia, November-Decembr, 1932.

Avertin Fluid Anesthesia in Surgery. K. Schlaepfer and L. M. Peters, Milwaukee. Archives of Surgery, May, 1932.

Avertin Narcosis, Recent Researches and Clinical Advances In. Walter Sebening, Frankfurt on Main, Germany. Current Researches in Anesthesia and Analgesia, July-August, 1932.

Avertin, Rectal Narcosis with: Preliminary Report. A. E. Lewis, Seattle, Wash. Western Journal of Surgery, Obstetrics and Gynecology, August, 1932.

Barbiturates. Editorial, Southern Medical Journal, August, 1932.

Brain Operations, Survey of the Anesthesias Given in 550, in the Years 1921 to 1930 inclusive. Dorothy A. Wood, San Francisco, Calif. Current Researches in Anesthesia and Analgesia, September-October, 1932.

Carbon Dioxid Absorption Methods in Anesthesia. F. T. Evans. British Medical Journal, May 21, 1932.

Ethyl Chlorid Anesthesia, The Dangers of. Walter K. Frankel, Berlin-Wilmersdorf, Germany. Schmerz, Narkose-Anaesthesie, July, 1932.

The Current Index of Anesthesia and Analgesia, 1932

- Endobronchic Anesthesia, Closed, in Thoracic Surgery: Preliminary Report. Joseph W. Gale, and Ralph M. Waters, Madison, Wis. Current Researches in Anesthesia and Analgesia, November-December, 1932.
- Endotracheal Gas-Oxygen Anesthesia, Further Experiences with. Harold R. Griffith, Montreal, Canada. Current Researches in Anesthesia and Analgesia, September-October, 1932.
- Endotracheal Inhalation of Ether. Geoffrey Kaye, Melbourne. Medical Journal of Australia, May 14, 1932.
- General Practitioner, Anesthesia for the. F. T. Romberger, Lafayette, Ind. Medical Arts, July, 1932.
- Inhalation Anesthesia, A New Technique in the Administration of, with Some Biochemical Comparisons. R. J. Minnitt, Liverpool, England. Current Researches in Anesthesia and Analgesia, July-August, 1932.
- Morphin-Pernocton Narcosis in Dogs. Otto Abet. Dissertation Surgical University Animal Clinic, Leipzig, 1931.
- Nature of Analgesia During Introductory Stage of Anesthesia. P. Sudeck. Zentralblatt für Chirurgie, May 21, 1932.
- Nitrous Oxid-Oxygen Anesthesia, Technique of and Indications for. R. Goldhahn. Zentralblatt für Chirurgie, June 4, 1932.
- Nitrous Oxid-Oxygen Anesthesia, Helping the Surgeon to Operate Under. E. A. Tyler, Philadelphia, Pa. Current Researches in Anesthesia and Analgesia, September-October, 1932.
- Ombredanne Inhaler, Anesthesia with the. Harttung, Lutherstadt, Germany. Schmerz, Narkose-Anaesthesia, July, 1932.
- Otorhinolaryngology, Anesthesia in. R. Moreno. Revista Medica Cubana, June, 1932.
- Present Status of Anesthesia. M. Kappis. Zentralblatt für Chirurgie, May 21, 1932.

Anesthetics—Toxicity and Impurity

- Carbon Monoxid in Ethylene, Determination of Traces of. H. S. Booth and M. B. Campbell, Cleveland, Ohio. Current Researches in Anesthesia and Analgesia, September-October, 1932.
- Chloroform and A.C.E. Mixture, The Effect of, on the Liver of the White Rat. Reuben M. Anderson, Rochester, Minn. Current Researches in Anesthesia and Analgesia, November-December, 1932.
- Dermatitis, Contact, in an Anesthetist, Due to Avertin (Tribromethanol). George V. Kulchar, Philadelphia. Journal American Medical Association, August 13, 1932.
- Ethyl Chlorid Spray Previous to Use of Galvanocautery, Is It Advisable to Anesthetize Skin by. F. Dietel. Deutsche medizinische Wochenschrift. April 29, 1932.
- Tetany During Ether Anesthesia. W. N. Kemp, Vancouver, B. C., Canada. British Journal of Anesthesia, July, 1932.

Anesthesia—Teaching and Hospital Service

- Anesthesias Administered in the Hospitals of the State of New Jersey: A Survey. Frank Bortone, Jersey City, N. J. Current Researches in Anesthesia and Analgesia, November-December, 1932.
- Anesthesias Administered in the Hospitals of the State of New Jersey: Critical Review of Survey. Edward M. Livingstone, New York, N. Y. Current Researches in Anesthesia and Analgesia, November-December, 1932.
- Anesthesia Service, The Requirements of an. Ralph M. Waters, Madison, Wis. Current Researches in Anesthesia and Analgesia, September-October, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Modern Anesthetics: The Teaching Hospital and the Undergraduate. J. Ross Mackenzie, Aberdeen, Scotland. British Journal of Anesthesia, July, 1932.

Anesthetics—Therapeutic Use

Paresis, Sodium Amytal in Treatment of, Preliminary Report. R. M. Fellows, Galveston, Texas. Missouri State Medical Association Journal, May, 1932.

Pertussis, Inhalation of Carbon Dioxid in the Paroxysmal Stage of. Yandell Henderson, New Haven, Conn. Journal American Medical Association, August 20, 1932.

Psychologic Changes in Normal and Abnormal Individuals Under Influence of Sodium Amytal. E. Lindemann, Iowa City. American Journal of Psychiatry, May, 1932.

Tetanus, Treatment of, with Avertin. G. Loewe. Deutsche Zeitschrift für Chirurgie, April 26, 1932.

Tetanus, Rectal Anesthesia with Avertin in. E. Thonnard-Neumann, Santa Marta, Colombia. United Fruit Company, Twentieth Medical Report, 1931.

Status Epilepticus, A Cure of Severe, with Enormous Doses of Pernocton. W. Olshausen. Zentralblatt für innere Medizin, April 30, 1932.

Blood and Blood Chemistry Studies

Blood Sugar, Changes in, During and After Operative Interventions in Ether Anesthesia. E. Thoresen. Norsk Magasin for Laegevidenskapen, May, 1932.

Books—New Editions

Modern Treatment Anesthesia. By W. Stanley Sykes and P. J. Moir, Leeds, England. Pp. 128 with illustrations. W. W. Norton & Company, Inc., New York.

Modern General Anesthesia: A Practical Handbook. By James G. Poe, Lecturer on General Anesthesia in the Medical and Dental Departments of Baylor University, Dallas, Texas. Second edition, Pp. 231, 12 illustrations. F. A. Davis Company, Philadelphia, 1932.

Recent Advances in Anesthesia and Analgesia. By C. Langton Hewer, Anesthetist, St. Bartholomew's Hospital, London, England. Pp. 187, 64 illustrations. P. Blakiston's Son & Co., Inc., Philadelphia.

Circulatory Disturbances

Chloroform Anesthesia, Cardiac Irregularities During. I. G. W. Hill. Lancet, May 28, 1932.

Carbon Dioxid

Carbon Dioxid and Oxygen Content and Capacity and Concentration of Blood of Anesthetized Dogs. E. S. Nasset, Rochester, N. Y. American Journal of Physiology, June, 1932.

Dentistry and Oral Surgery

Anesthesia. Maurice E. Peters, Boston, Mass. Modern Dentistry, June, 1932.

Gas-Oxygen Anesthesia for Difficult and Bad Risk Patients in Dental Practice. M. Ecker, New York City. Current Researches in Anesthesia and Analgesia, July-August, 1932.

Deaths

Spinal Anesthesia Deaths: A Survey. Myra E. Babcock, Detroit, Mich. Current Researches in Anesthesia and Analgesia, July-August, 1932.

Evaluation Tests for Surgical Risk

Skin Temperature, Measurement of, During Anesthesia and Its Significance for Prognosis. E. Mayer. Deutsche Zeitschrift für Chirurgie, May 17, 1932.

Historical Consideration

The History of Anesthesia. St. J. D. Buxton. The Dental Record, August, 1932.

Hugh R. Phillips: Obituary. British Journal of Anesthesia, July, 1932.

The Current Index of Anesthesia and Analgesia, 1932

Local Anesthesia—Dentistry and Oral Surgery

- Local Anesthesia and Oral Surgery. Edward Reiter, Cleveland, Ohio. *Oral Health*, July, 1932.
- Pain, The Elimination of, from Dentistry. L. L. Osborn. *Oral Hygiene*, August, 1932.

Local Anesthesia—Methods and Operations

- Local Anesthetics, Observations on Their Efficiency. Johanna Kaempf, Heidelberg, Germany. *Schmerz, Narkose-Anaesthesie*, July, 1932.
- Neothesin for Spinal and Regional Anesthesia: A Preliminary Clinical Report. Philip D. Woodbridge, Boston, Mass. *Current Researches in Anesthesia and Analgesia*, July-August, 1932.
- Nerve Block, Anesthetic and Therapeutic, by Three Dimensions X-Ray Localization Method. M. B. Greene and J. Kaufman, Brooklyn, N. Y. *Current Researches in Anesthesia and Analgesia*, November-December, 1932.
- Percain Sub-Arachnoid Block. H. P. Fairlie, Glasgow, Scotland. *British Journal of Anesthesia*, July, 1932.
- Peridural Segmental Anesthesia. A. M. Dogliotti, Turin, Italy. *Bollettino e memorie della Societa Piemontese di Chirurgia*, Volume I, No. 7, 1931.
- Regional Anesthesia: Its Modern Technique and Therapeutic Application. II, Report of Cases. M. B. Greene, Brooklyn, N. Y. *California and Western Medicine*, July, 1932.
- Spinal Anesthesia: Part I. C. H. Arnold Lincoln. *Nebraska State Medical Journal*, May, 1932.
- Spinal Anesthesia: Part II. C. H. Arnold, Lincoln. *Nebraska State Medical Journal*, June, 1932.
- Spinal Anesthesia: Summary of Clinical and Experimental Investigations, with Practical Deductions. J. O. Bower, J. H. Clark, G. Wagoner and J. C. Burns, Philadelphia. *Surgery, Gynecology and Obstetrics*, June, 1932.
- Spinal Anesthesia with Stovain and Adrenalin. Ricardo Aguilar, Quirigua, Guatemala. United Fruit Company, Twentieth Medical Report, 1931.
- Spinal Anesthesia, Progress in. W. E. Tobie, Portland. *Maine Medical Journal*, April, 1932.
- Spinal Anesthesia: Its Effects on the Central Nervous System. F. G. Linde-mulder, Ann Arbor, Mich. *Journal American Medical Association*, July 16, 1932.
- Spinal Anesthesia, One Thousand Cases of, Without a Death Attributable to the Anesthetic. M. Weinstein and J. P. McHugh, Long Island City, N. Y. *Medical Journal and Record*, June 1, 1932.
- Spinal Anesthesia, Nupercain. E. E. Arnheim and S. Mage, New York. *Surgery, Gynecology and Obstetrics*, May, 1932.
- Sub-Arachnoid Block General Analgesia: "Spinal" Anesthesia: Respiratory Paralysis Fallacies and Methods. W. Howard Jones, London, England. *Current Researches in Anesthesia and Analgesia*, September-October, 1932.
- Tonsillectomy, Local Anesthesia for. J. W. Costello. *British Medical Journal*, May 7, 1932.
- Trigeminal Neuralgia Major; Tic Dououreux; Trifacial Neuralgia; Neuralgia Quinti Major. W. T. Coughlin, St. Louis, Mo. *Dental Cosmos*, August, 1932.

Local Anesthesia—Therapeutic Use

- Obstruction, Acute, Spinal Anesthesia in. A. S. D. Russell and B. R. Sworn. *British Medical Journal*, May 14, 1932.
- Paravertebral Alcoholic Block, Therapeutic: Observations of its Effects Following Its Use in Angina, Asthma and Raynaud's Disease. F. H. DuBose, Selma, Ala. *Southern Surgeon*, April, 1932.

Medico-Legal Considerations

- Charitable Hospitals: Liability for Burn by Hot Water Bottle. Medico-Legal, *Journal American Medical Association*, July 16, 1932.
- Law for the Dentist: Breaking of Hypodermic Needle for Inserting, as Negligence. Leslie Childs, Indianapolis, Ind. *Dental Cosmos*, August, 1932.

The Current Index of Anesthesia and Analgesia, 1932

- Liability of Physician for Hot Water Bottle Burn.** Medico-Legal, Journal American Medical Association, July 16, 1932.
Liability of Internes and Nurses for Negligence. (Nickley v. Skemp [Wis.], 239 N. W. 426). Medico-Legal. Journal American Medical Association, August 20, 1932.

Obstetrical Anesthesia and Analgesia

- Eclampsia, the Treatment of, with Pernocton.** E. Vogt. Muenchener medizinische Wochenschrift, May 20, 1932.
Ether-Oil Rectal Analgesia in Obstetrics, Popularizing. C. O. McCormick, Indianapolis, Ind. Current Researches in Anesthesia and Analgesia, July-August, 1932.
Nitrous Oxid for the Relief of Pain in Normal Labor. I. v. Thurn-Rumbach, Budapest, Hungary. Schmerz, Narkose-Anaesthesie, July, 1932.
Sodium Amytal in Eclampsia, Oral Administration of. E. C. Hamblen and D. O. Hamblin, University, Va. American Journal of Obstetrics and Gynecology, April, 1932.
Sodium Amytal in Labor, The Use of; A Preliminary Report. M. M. Shir and I. Daichman, Brooklyn, N. Y. American Journal of Obstetrics and Gynecology, July, 1932.
Use of Allylisopropyl Barbituric Acid in Labor. John E. Hobbs, St. Louis, Mo. Southern Medical Journal, August, 1932.

Oxygen Studies and Therapy

- Further Experiences with Carbon Dioxid-Oxygen Therapy.** John J. Wittmer, New York City. Current Researches in Anesthesia and Analgesia, November-December, 1932.
Further Observations on Oxygen Therapy in the Treatment of Pneumonia. J. H. Evans and C. S. Durshordwe, Buffalo, N. Y. Current Researches in Anesthesia and Analgesia, September-October, 1932.
Metabolic Action of Inhalation of Pure Oxygen. P. Bielschowsky and S. Thaddea. Zeitschrift für klinische Medizin, May 4, 1932.

Preoperative Complications

- Handicapped Patient, Preoperative Preparation of the Surgically, Report of Cases.** Charles T. Sturgeon, Los Angeles. California and Western Medicine, July, 1932.

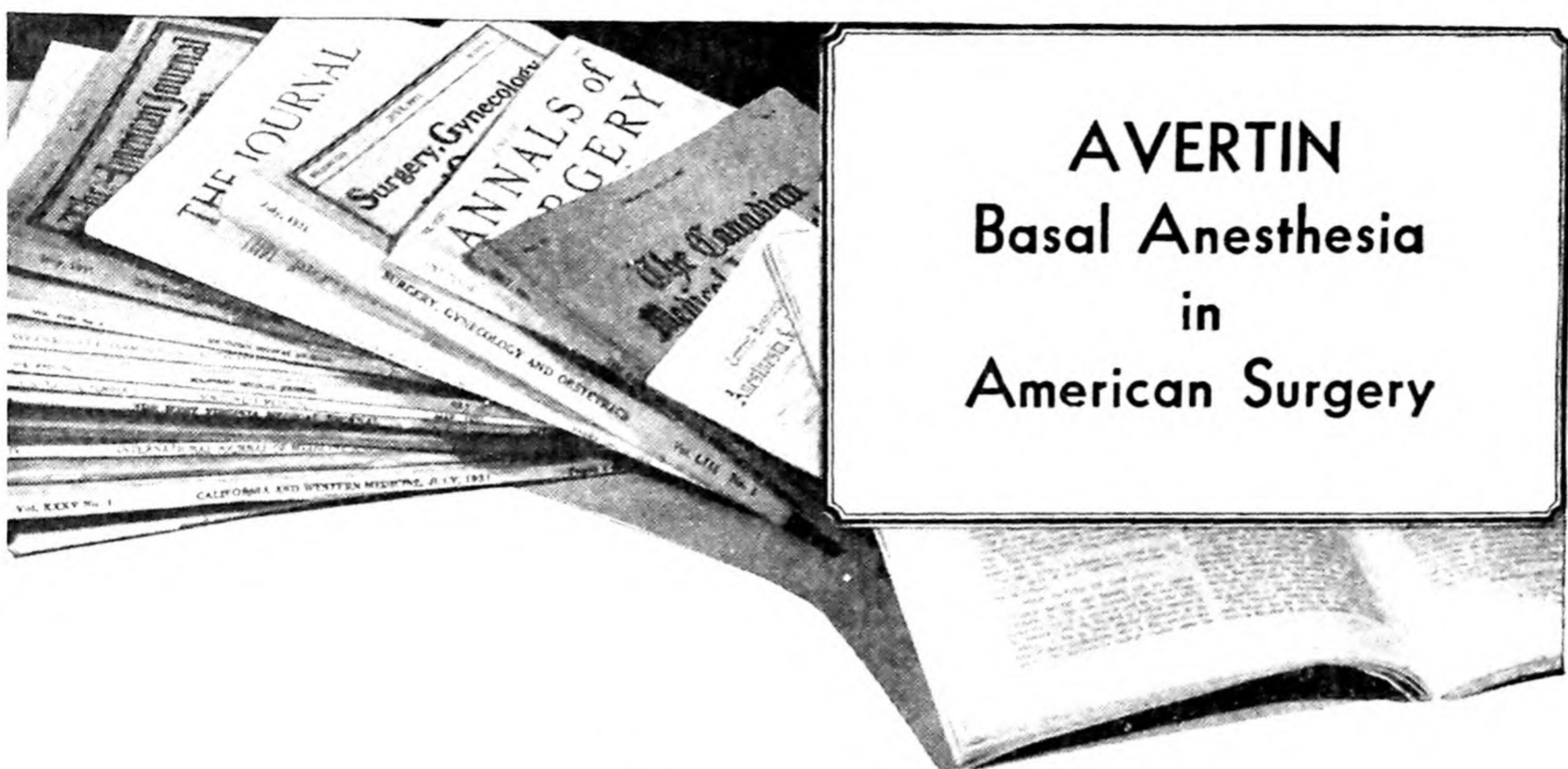
Postoperative Complications

- Foreign Body in Lung in Infants and Young Children, Postoperative Care of.** M. F. Arbuckle, St. Louis. Southern Medical Journal, May, 1932.
Hyperventilation, Postoperative. C. E. Haines, New Rochelle, N. Y. Medical Journal and Record, May 4, 1932.
Morphin, Effect of, on Intestine. H. E. Carlson and T. G. Orr, Kansas City. Kansas Medical Society Journal, May, 1932.
Pneumonia, Postoperative, with Report of Four Cases. H. C. Rutherford Darling, Sydney. Medical Journal of Australia, July 23, 1932.
Pulmonary Complications, Postoperative: A Study of Their Relative Incidence Following Inhalation Anesthesia and Spinal Anesthesia. A. Lincoln Brown and Martin Warren Debenham, San Francisco, Calif. Journal American Medical Association, July 16, 1932.
Thrombosis, Prophylaxis of Postoperative Venous. H. Iselin. Schweizerische medizinische Wochenschrift, June 11, 1932.
Thrombosis, Thrombophlebitis and Embolism, Postoperative. F. W. Bancroft and Margaret Stanley-Brown, New York. Surgery, Gynecology and Obstetrics, June, 1932.

Shock

- Postoperative Shock, Studies on.** W. Ewig and L. Klotz. Klinische Wochenschrift, May 28, 1932.
Shock, Postoperative, Studies on. W. Ewig and L. Klotz. Deutsche Zeitschrift für Chirurgie, April 26, 1932.

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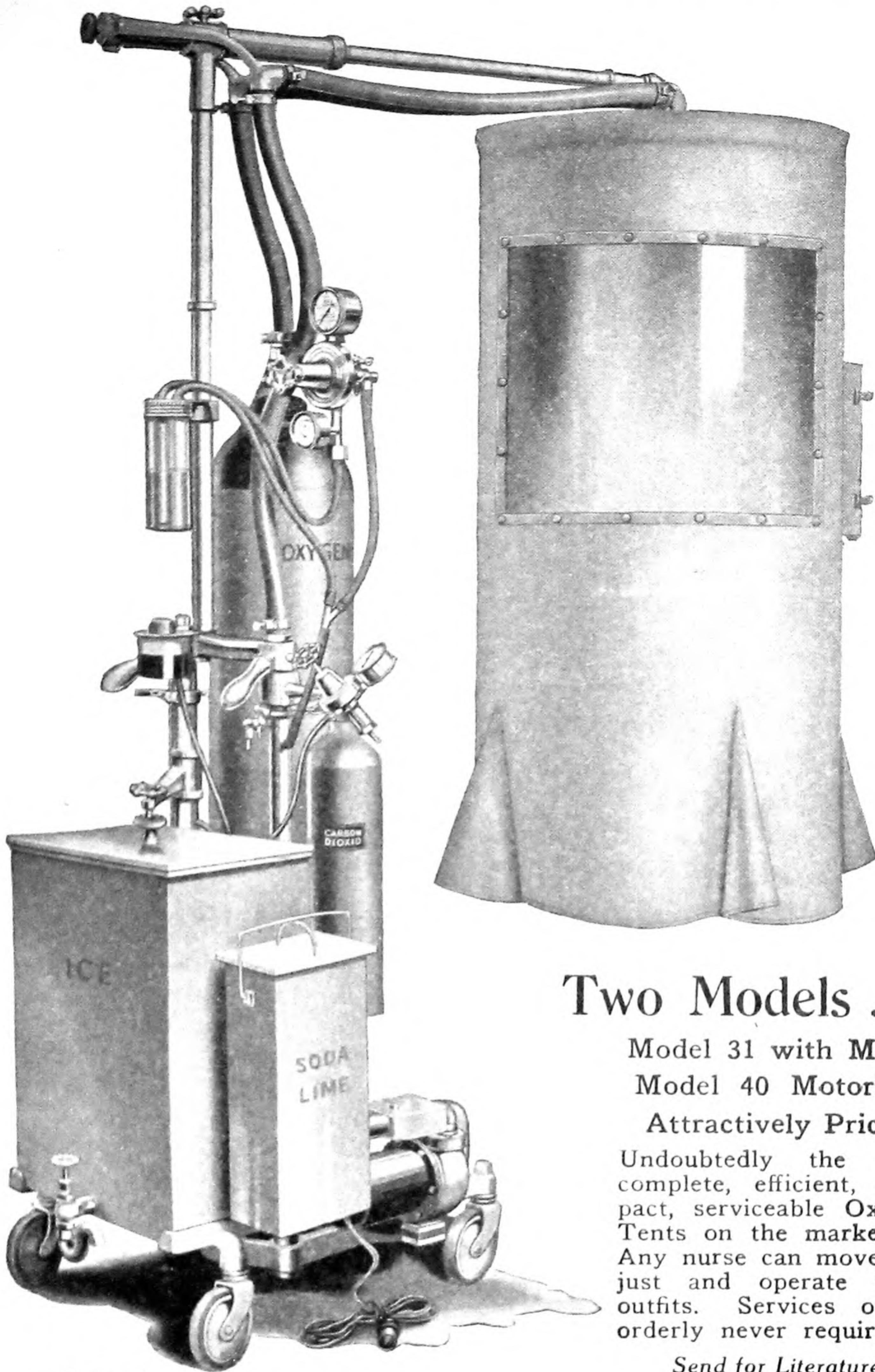
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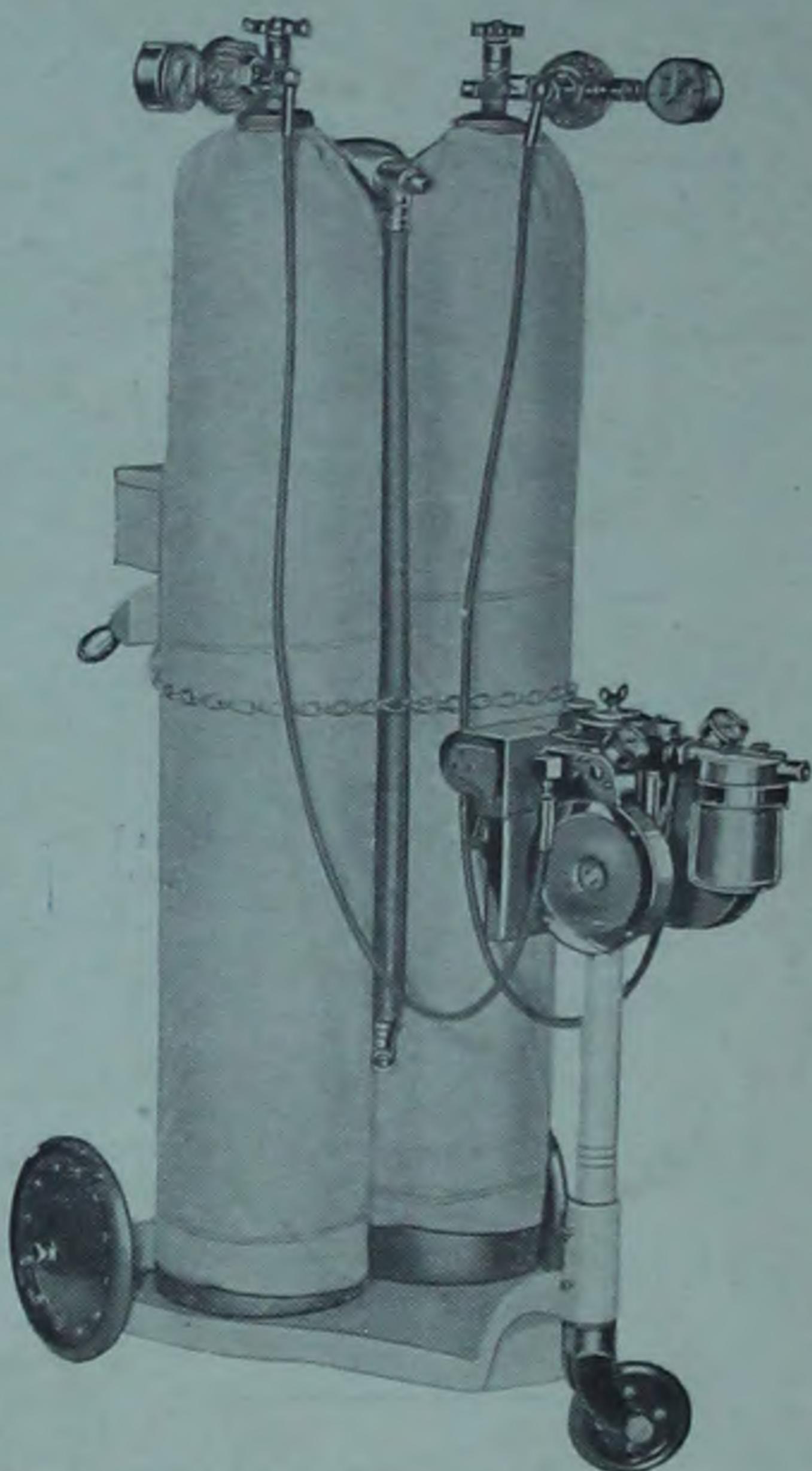
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